

DATA PACKAGE VOLATILE ORGANICS

PROJECT NAME : ANSONIA LANDFILL 2025

LOCKWOOD, KESSLER & BARTLETT, INC.

1 Aerial Way

Syosset, NY - 11791-

Phone No: 516-938-0600

ORDER ID : Q3254

ATTENTION : John Gerlach



Laboratory Certification ID # 20012



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Cover Page

Order ID : Q3254

Project ID : Ansonia Landfill 2025

Client : Lockwood, Kessler & Bartlett, Inc.

Lab Sample Number

Q3254-01
Q3254-02
Q3254-03
Q3254-04
Q3254-05
Q3254-06
Q3254-07
Q3254-08
Q3254-09

Client Sample Number

MW-1
MW-1
MW-2
MW-2
MW-3
MW-3
MW-4
MW-4
TRIP-BLANK

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature :

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 11:25 am, Oct 13, 2025

Date: 10/9/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Lockwood, Kessler & Bartlett, Inc.

Project Name: Ansonia Landfill 2025

Project # N/A

Order ID # Q3254

Test Name: VOCMS Group1

A. Number of Samples and Date of Receipt:

5 Water samples were received on 09/30/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: VOCMS Group1. This data package contains results for VOCMS Group1.

C. Analytical Techniques:

The analysis performed on instrument MSVOA_V were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UI. The analysis of VOCMS Group1 was based on method 8260D.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries were met for all analysis.

The Internal Standards Areas were met for all analysis.

The Retention Times were met for all analysis.

The RPD were met for all analysis.

The Blank Spike met requirements for all compounds.

The Blank Spike Duplicate for {VV1003WBSD01} with File ID: VV039246.D met requirements for all compounds except for Bromoform[111%] is failing high but no positive hit in associate sample therefore no corrective action taken.

The Blank analysis did not indicate the presence of lab contamination.

The %RSD is greater than 20% in the Initial Calibration method (82V092225W.M) for 2-Hexanone passing on Linear regression and Chloroethane, Acetone ,Methylene Chloride, Styrene, 1,2-Dibromo-3-Chloropropane are passing on Quadratic Regression.

The Continuous Calibration File ID VV039242.D met the requirements except for Bromoform, Ethyl Benzene, m/p-Xylenes, o-Xylene, Toluene are failing high but no positive hit in associate sample while 4-Bromofluorobenzene which is not our target compound therefore no corrective action taken.

The Tuning criteria met requirements.

E. Additional Comments:

Samples for MS/MSD for VOC analysis were not provided with this set of samples. The Blank Spike Duplicate is reported with the data.

Alliance has analyzed samples for VOCMS Group1 by Method 8260D for Project "Ansonia Landfill 2025". Alliance is not certified for trans-1,4-dichloro-2-butene compounds with NJDEP for 8260D method for VOCMS Group1 at the time when samples for Project "Ansonia Landfill 2025" were analyzed

F. Manual Integration Comments:

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 11:28 am, Oct 13, 2025

Signature_____

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following “ Results Qualifiers” are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. “10 U”. This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value. This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as “12 B”.
E	Indicates the analyte ‘s concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a “P”.
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY

ORDER ID: Q3254

MATRIX: Water

METHOD: 8260D

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications BFB Meet Criteria (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements. The %RSD is greater than 20% in the Initial Calibration method (82V092225W.M) for 2-Hexanone passing on Linear regression and Chloroethane, Acetone, Methylene Chloride, Styrene, 1,2-Dibromo-3-Chloropropane are passing on Quadratic Regression. The Continuous Calibration File ID VV039242.D met the requirements except for Bromoform, Ethyl Benzene, m/p-Xylenes, o-Xylene, Toluene are failing high but no positive hit in associate sample while 4-Bromofluorobenzene which is not our target compound therefore no corrective action taken.		✓	
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7.	Surrogate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			✓
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range. The Blank Spike met requirements for all compounds. The Blank Spike Duplicate for {VV1003WBSD01} with File ID: VV039246.D met requirements for all compounds except for Bromoform[111%] is failing high but no positive hit in associate sample therefore no corrective action taken.		✓	
9.	Internal Standard Area/Retention Time Shift Meet Criteria Comments:			✓
10.	Analysis Holding Time Met If not met, list number of days exceeded for each sample:			✓

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

NA NO YES

ADDITIONAL COMMENTS:

Samples for MS/MSD for VOC analysis were not provided with this set of samples. The Blank Spike Duplicate is reported with the data.

Alliance has analyzed samples for VOCMS Group1 by Method 8260D for Project “Ansonia Landfill 2025”.

Alliance is not certified for trans-1,4-dichloro-2-butene compounds with NJDEP for 8260D method for VOCMS Group1 at the time when samples for Project “Ansonia Landfill 2025 “were analyzed

REVIEWED

By Sohil Jodhani, QA/QC Director at 9:16 am, Oct 13, 2025

QA REVIEW

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q3254

Completed

For thorough review, the report must have the following:

GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Custody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 10/09/2025

LAB CHRONICLE

OrderID:	Q3254	OrderDate:	9/30/2025 12:37:00 PM
Client:	Lockwood, Kessler & Bartlett, Inc.	Project:	Ansonia Landfill 2025
Contact:	John Gerlach	Location:	D31,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3254-01	MW-1	Water	VOCMS Group1	8260-Low	09/29/25		10/03/25	09/30/25
Q3254-03	MW-2	Water	VOCMS Group1	8260-Low	09/29/25		10/03/25	09/30/25
Q3254-05	MW-3	Water	VOCMS Group1	8260-Low	09/29/25		10/03/25	09/30/25
Q3254-07	MW-4	Water	VOCMS Group1	8260-Low	09/29/25		10/03/25	09/30/25
Q3254-09	TRIP-BLANK	Water	VOCMS Group1	8260-Low	09/29/25		10/03/25	09/30/25

Hit Summary Sheet
SW-846

SDG No.: Q3254

Client: Lockwood, Kessler & Bartlett, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	MW-2							
Q3254-03	MW-2	Water	Chlorobenzene	0.97	J	0.12	1.00	ug/L
			Total Voc :	0.97				
			Total Concentration:	0.97				
Client ID:	MW-4							
Q3254-07	MW-4	Water	Chlorobenzene	0.71	J	0.12	1.00	ug/L
			Total Voc :	0.71				
			Total Concentration:	0.71				



QC SUMMARY

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Surrogate Summary

SDG No.: **Q3254**

Client: **Lockwood, Kessler & Bartlett, Inc.**

Analytical Method: **SW8260-Low**

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%)	
							Low	High
Q3254-01	MW-1	1,2-Dichloroethane-d4	50	59.5	119		74	125
		Dibromofluoromethane	50	58.8	118		75	124
		Toluene-d8	50	45.8	92		86	113
		4-Bromofluorobenzene	50	45.0	90		77	121
Q3254-03	MW-2	1,2-Dichloroethane-d4	50	58.7	117		74	125
		Dibromofluoromethane	50	61.4	123		75	124
		Toluene-d8	50	46.7	93		86	113
		4-Bromofluorobenzene	50	46.2	92		77	121
Q3254-05	MW-3	1,2-Dichloroethane-d4	50	58.4	117		74	125
		Dibromofluoromethane	50	56.4	113		75	124
		Toluene-d8	50	45.2	90		86	113
		4-Bromofluorobenzene	50	45.3	91		77	121
Q3254-07	MW-4	1,2-Dichloroethane-d4	50	57.5	115		74	125
		Dibromofluoromethane	50	57.4	115		75	124
		Toluene-d8	50	45.6	91		86	113
		4-Bromofluorobenzene	50	45.1	90		77	121
Q3254-09	TRIP-BLANK	1,2-Dichloroethane-d4	50	58.2	116		74	125
		Dibromofluoromethane	50	58.9	118		75	124
		Toluene-d8	50	45.8	92		86	113
		4-Bromofluorobenzene	50	44.6	89		77	121
VV1003WBL01	VV1003WBL01	1,2-Dichloroethane-d4	50	51.7	103		74	125
		Dibromofluoromethane	50	52.5	105		75	124
		Toluene-d8	50	44.6	89		86	113
		4-Bromofluorobenzene	50	45.2	90		77	121
VV1003WBS01	VV1003WBS01	1,2-Dichloroethane-d4	50	41.7	83		74	125
		Dibromofluoromethane	50	49.6	99		75	124
		Toluene-d8	50	45.8	92		86	113
		4-Bromofluorobenzene	50	53.4	107		77	121
VV1003WBSD0	VV1003WBSD01	1,2-Dichloroethane-d4	50	42.8	86		74	125
		Dibromofluoromethane	50	48.6	97		75	124
		Toluene-d8	50	45.3	91		86	113
		4-Bromofluorobenzene	50	53.2	106		77	121

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q3254</u>	Analytical Method:	<u>SW8260-Low</u>
Client:	<u>Lockwood, Kessler & Bartlett, Inc.</u>	Datafile :	<u>VV039245.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VV1003WBS01	Vinyl chloride	20	17.5	ug/L	88			65	117	
	Chloroethane	20	18.1	ug/L	91			56	128	
	Trichlorofluoromethane	20	19.1	ug/L	96			73	115	
	1,1-Dichloroethene	20	18.8	ug/L	94			74	110	
	Acrylonitrile	100	88.9	ug/L	89			73	113	
	Acetone	100	91.0	ug/L	91			60	125	
	Carbon disulfide	20	16.0	ug/L	80			64	112	
	Methylene Chloride	20	19.9	ug/L	100			72	114	
	Vinyl Acetate	100	88.0	ug/L	88			76	115	
	2-Butanone	100	89.1	ug/L	89			65	122	
	Carbon Tetrachloride	20	19.2	ug/L	96			77	113	
	cis-1,2-Dichloroethene	20	19.2	ug/L	96			77	110	
	Bromochloromethane	20	19.3	ug/L	97			70	124	
	Chloroform	20	18.1	ug/L	91			79	113	
	1,1,1-Trichloroethane	20	18.2	ug/L	91			80	108	
	Benzene	20	19.4	ug/L	97			82	109	
	1,2-Dichloropropane	20	19.9	ug/L	100			83	111	
	Dibromomethane	20	19.8	ug/L	99			82	110	
	Bromodichloromethane	20	19.3	ug/L	97			83	110	
	4-Methyl-2-Pentanone	100	100	ug/L	100			74	118	
	Toluene	20	20.9	ug/L	104			82	110	
	t-1,3-Dichloropropene	20	21.1	ug/L	106			79	110	
	cis-1,3-Dichloropropene	20	20.9	ug/L	104			82	110	
	2-Hexanone	100	91.8	ug/L	92			73	117	
	Dibromochloromethane	20	20.7	ug/L	104			82	110	
	1,2-Dibromoethane	20	20.6	ug/L	103			81	110	
	Tetrachloroethene	20	20.3	ug/L	102			67	123	
	Chlorobenzene	20	20.2	ug/L	101			82	109	
	1,1,1,2-Tetrachloroethane	20	20.3	ug/L	102			84	111	
	Ethyl Benzene	20	20.2	ug/L	101			83	109	
	m/p-Xylenes	40	43.1	ug/L	108			82	110	
	o-Xylene	20	21.5	ug/L	108			83	109	
	Styrene	20	19.7	ug/L	99			80	111	
	Bromoform	20	21.5	ug/L	108			79	109	
	1,1,2,2-Tetrachloroethane	20	18.2	ug/L	91			76	118	
	1,2,3-Trichloropropane	20	18.1	ug/L	91			75	112	
	1,4-Dichlorobenzene	20	19.3	ug/L	97			82	107	
	1,2-Dichlorobenzene	20	19.7	ug/L	99			82	109	
	1,2-Dibromo-3-Chloropropane	20	20.5	ug/L	103			68	112	
	Methyl iodide	20	22.0	ug/L	110			70	130	
	trans-1,4-Dichloro-2-butene	20	19.0	ug/L	95			79	102	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q3254</u>	Analytical Method:	<u>SW8260-Low</u>
Client:	<u>Lockwood, Kessler & Bartlett, Inc.</u>	Datafile :	<u>VV039246.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VV1003WBSD01	Vinyl chloride	20	17.0	ug/L	85	3		65	117	19
	Chloroethane	20	17.8	ug/L	89	2		56	128	20
	Trichlorofluoromethane	20	18.8	ug/L	94	2		73	115	16
	1,1-Dichloroethene	20	18.7	ug/L	94	0		74	110	20
	Acrylonitrile	100	94.7	ug/L	95	7		73	113	29
	Acetone	100	93.4	ug/L	93	2		60	125	20
	Carbon disulfide	20	15.9	ug/L	79	1		64	112	20
	Methylene Chloride	20	20.2	ug/L	101	1		72	114	20
	Vinyl Acetate	100	92.0	ug/L	92	4		76	115	26
	2-Butanone	100	93.5	ug/L	94	5		65	122	26
	Carbon Tetrachloride	20	18.8	ug/L	94	2		77	113	15
	cis-1,2-Dichloroethene	20	19.6	ug/L	98	2		77	110	20
	Bromochloromethane	20	19.6	ug/L	98	1		70	124	20
	Chloroform	20	18.2	ug/L	91	0		79	113	20
	1,1,1-Trichloroethane	20	18.4	ug/L	92	1		80	108	20
	Benzene	20	19.3	ug/L	97	0		82	109	15
	1,2-Dichloropropane	20	19.1	ug/L	96	4		83	111	16
	Dibromomethane	20	20.1	ug/L	101	2		82	110	20
	Bromodichloromethane	20	19.4	ug/L	97	0		83	110	16
	4-Methyl-2-Pentanone	100	110	ug/L	110	10		74	118	25
	Toluene	20	20.9	ug/L	104	0		82	110	16
	t-1,3-Dichloropropene	20	21.3	ug/L	106	0		79	110	20
	cis-1,3-Dichloropropene	20	21.1	ug/L	106	2		82	110	16
	2-Hexanone	100	95.2	ug/L	95	3		73	117	25
	Dibromochloromethane	20	20.6	ug/L	103	1		82	110	20
	1,2-Dibromoethane	20	21.4	ug/L	107	4		81	110	20
	Tetrachloroethene	20	20.4	ug/L	102	0		67	123	15
	Chlorobenzene	20	20.2	ug/L	101	0		82	109	15
	1,1,1,2-Tetrachloroethane	20	20.7	ug/L	104	2		84	111	20
	Ethyl Benzene	20	20.2	ug/L	101	0		83	109	16
	m/p-Xylenes	40	43.3	ug/L	108	0		82	110	15
	o-Xylene	20	21.8	ug/L	109	1		83	109	20
	Styrene	20	19.6	ug/L	98	1		80	111	17
	Bromoform	20	22.2	ug/L	111	3	*	79	109	20
	1,1,2,2-Tetrachloroethane	20	18.8	ug/L	94	3		76	118	20
	1,2,3-Trichloropropane	20	18.8	ug/L	94	3		75	112	20
	1,4-Dichlorobenzene	20	19.5	ug/L	98	1		82	107	15
	1,2-Dichlorobenzene	20	20.2	ug/L	101	2		82	109	20
	1,2-Dibromo-3-Chloropropane	20	20.6	ug/L	103	0		68	112	20
	Methyl iodide	20	22.2	ug/L	111	1		70	130	20
	trans-1,4-Dichloro-2-butene	20	19.5	ug/L	98	3		79	102	20

VOLATILE METHOD BLANK SUMMARY

Client ID

VV1003WBL01

Lab Name: Alliance

Contract: LOCK01

Lab Code: ACE

SDG NO.: Q3254

Lab File ID: VV039244.D

Lab Sample ID: VV1003WBL01

Date Analyzed: 10/03/2025

Time Analyzed: 11:26

GC Column: DB-624UI ID: 0.18 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOA_V

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VV1003WBS01	VV1003WBS01	VV039245.D	10/03/2025
VV1003WBSD01	VV1003WBSD01	VV039246.D	10/03/2025
TRIP-BLANK	Q3254-09	VV039251.D	10/03/2025
MW-1	Q3254-01	VV039252.D	10/03/2025
MW-2	Q3254-03	VV039253.D	10/03/2025
MW-3	Q3254-05	VV039254.D	10/03/2025
MW-4	Q3254-07	VV039255.D	10/03/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
 BROMOFLUOROBENZENE (BFB)
Lab Name: AllianceContract: LOCK01Lab Code: ACESDG NO.: Q3254Lab File ID: VV039134.DBFB Injection Date: 09/22/2025Instrument ID: MSVOA_VBFB Injection Time: 10:15GC Column: DB-624UI ID: 0.18 (mm)Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.6
75	30.0 - 60.0% of mass 95	51.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	1.1 (1.6) 1
174	50.0 - 100.0% of mass 95	73.3
175	5.0 - 9.0% of mass 174	5.5 (7.5) 1
176	95.0 - 101.0% of mass 174	70.4 (96) 1
177	5.0 - 9.0% of mass 176	4.4 (6.3) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC010	VSTDICC010	VV039137.D	09/22/2025	12:26
VSTDICC020	VSTDICC020	VV039138.D	09/22/2025	12:48
VSTDICCC050	VSTDICCC050	VV039139.D	09/22/2025	13:26
VSTDICC100	VSTDICC100	VV039140.D	09/22/2025	13:49
VSTDICC005	VSTDICC005	VV039142.D	09/22/2025	15:37
VSTDICC001	VSTDICC001	VV039143.D	09/22/2025	16:35

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
 BROMOFLUOROBENZENE (BFB)
Lab Name: AllianceContract: LOCK01Lab Code: ACESDG NO.: Q3254Lab File ID: VV039241.DBFB Injection Date: 10/03/2025Instrument ID: MSVOA_VBFB Injection Time: 08:26GC Column: DB-624UI ID: 0.18 (mm)Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.6
75	30.0 - 60.0% of mass 95	49.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	1 (1.3) 1
174	50.0 - 100.0% of mass 95	78
175	5.0 - 9.0% of mass 174	5.5 (7) 1
176	95.0 - 101.0% of mass 174	74.9 (96) 1
177	5.0 - 9.0% of mass 176	5 (6.6) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VV039242.D	10/03/2025	08:53
VV1003WBL01	VV1003WBL01	VV039244.D	10/03/2025	11:26
VV1003WBS01	VV1003WBS01	VV039245.D	10/03/2025	13:07
VV1003WBSD01	VV1003WBSD01	VV039246.D	10/03/2025	13:29
TRIP-BLANK	Q3254-09	VV039251.D	10/03/2025	15:49
MW-1	Q3254-01	VV039252.D	10/03/2025	16:11
MW-2	Q3254-03	VV039253.D	10/03/2025	16:34
MW-3	Q3254-05	VV039254.D	10/03/2025	16:56
MW-4	Q3254-07	VV039255.D	10/03/2025	17:19

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: LOCK01
Lab Code: ACE SDG NO.: Q3254
Lab File ID: VV039242.D Date Analyzed: 10/03/2025
Instrument ID: MSVOA_V Time Analyzed: 08:53
GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	504801	4.60	717875	5.53	718198	8.77
UPPER LIMIT	1009600	5.096	1435750	6.032	1436400	9.273
LOWER LIMIT	252401	4.096	358938	5.032	359099	8.273
EPA SAMPLE NO.						
MW-1	361761	4.60	619136	5.54	640562	8.78
MW-2	308662	4.60	515390	5.54	544820	8.78
MW-3	448224	4.60	801027	5.54	823576	8.78
MW-4	392891	4.60	674176	5.54	694020	8.78
TRIP-BLANK	330074	4.60	558191	5.54	580452	8.78
VV1003WBL01	501875	4.60	854024	5.53	854306	8.78
VV1003WBS01	559480	4.60	866328	5.53	845304	8.77
VV1003WBSD01	530712	4.60	834883	5.54	807929	8.78

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: LOCK01
 Lab Code: ACE SDG NO.: Q3254
 Lab File ID: VV039242.D Date Analyzed: 10/03/2025
 Instrument ID: MSVOA_V Time Analyzed: 08:53
 GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	467640	11.172				
UPPER LIMIT	935280	11.672				
LOWER LIMIT	233820	10.672				
EPA SAMPLE NO.						
MW-1	308059	11.18				
MW-2	261173	11.17				
MW-3	400173	11.17				
MW-4	336486	11.17				
TRIP-BLANK	279370	11.18				
VV1003WBL01	433083	11.17				
VV1003WBS01	506399	11.17				
VV1003WBSD01	481201	11.17				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.



SAMPLE DATA

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	09/29/25
Project:	Ansonia Landfill 2025	Date Received:	09/30/25
Client Sample ID:	MW-1	SDG No.:	Q3254
Lab Sample ID:	Q3254-01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
Soil Aliquot Vol:			uL
GC Column:	DB-624UI	ID :	0.18
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039252.D	1	10/03/25 16:11	VV100325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	1.00	U	0.26	1.00	ug/L
75-00-3	Chloroethane	1.00	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.33	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.23	1.00	ug/L
107-13-1	Acrylonitrile	5.00	U	0.83	5.00	ug/L
67-64-1	Acetone	5.00	U	1.50	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.21	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.28	1.00	ug/L
108-05-4	Vinyl Acetate	5.00	U	0.66	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.19	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.22	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.20	1.00	ug/L
71-43-2	Benzene	1.00	U	0.15	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.20	1.00	ug/L
74-95-3	Dibromomethane	1.00	U	0.25	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.68	5.00	ug/L
108-88-3	Toluene	1.00	U	0.14	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.16	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.15	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.12	1.00	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	1.00	U	0.19	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.13	1.00	ug/L

Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	09/29/25
Project:	Ansonia Landfill 2025	Date Received:	09/30/25
Client Sample ID:	MW-1	SDG No.:	Q3254
Lab Sample ID:	Q3254-01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
Soil Aliquot Vol:			uL
GC Column:	DB-624UI	ID :	0.18
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039252.D	1	10/03/25 16:11	VV100325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1330-20-7	Total Xylenes	3.00	U	0.36	3.00	ug/L
100-42-5	Styrene	1.00	U	0.15	1.00	ug/L
75-25-2	Bromoform	1.00	UQ	0.19	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.26	1.00	ug/L
96-18-4	1,2,3-Trichloropropane	1.00	U	0.35	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.53	1.00	ug/L
74-88-4	Methyl Iodide	5.00	U	0.83	5.00	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	5.00	U	0.84	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	59.5		74 - 125	119%	SPK: 50
1868-53-7	Dibromofluoromethane	58.8		75 - 124	118%	SPK: 50
2037-26-5	Toluene-d8	45.8		86 - 113	92%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.1		77 - 121	90%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	362000	4.603			
540-36-3	1,4-Difluorobenzene	619000	5.535			
3114-55-4	Chlorobenzene-d5	641000	8.776			
3855-82-1	1,4-Dichlorobenzene-d4	308000	11.175			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV100325\
Data File : VV039252.D
Acq On : 03 Oct 2025 16:11
Operator : SY/MD
Sample : Q3254-01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-1

Quant Time: Oct 04 01:12:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.603	168	361761	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	619136	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	640562	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.175	152	308059	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.944	65	311732	59.539	ug/l	0.00
Spiked Amount	50.000	Range	81 - 118	Recovery	=	119.080%#
35) Dibromofluoromethane	4.503	113	292587	58.784	ug/l	0.00
Spiked Amount	50.000	Range	80 - 119	Recovery	=	117.560%
50) Toluene-d8	7.240	98	669176	45.776	ug/l	0.00
Spiked Amount	50.000	Range	89 - 112	Recovery	=	91.560%
62) 4-Bromofluorobenzene	10.002	95	271111	45.050	ug/l	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	=	90.100%

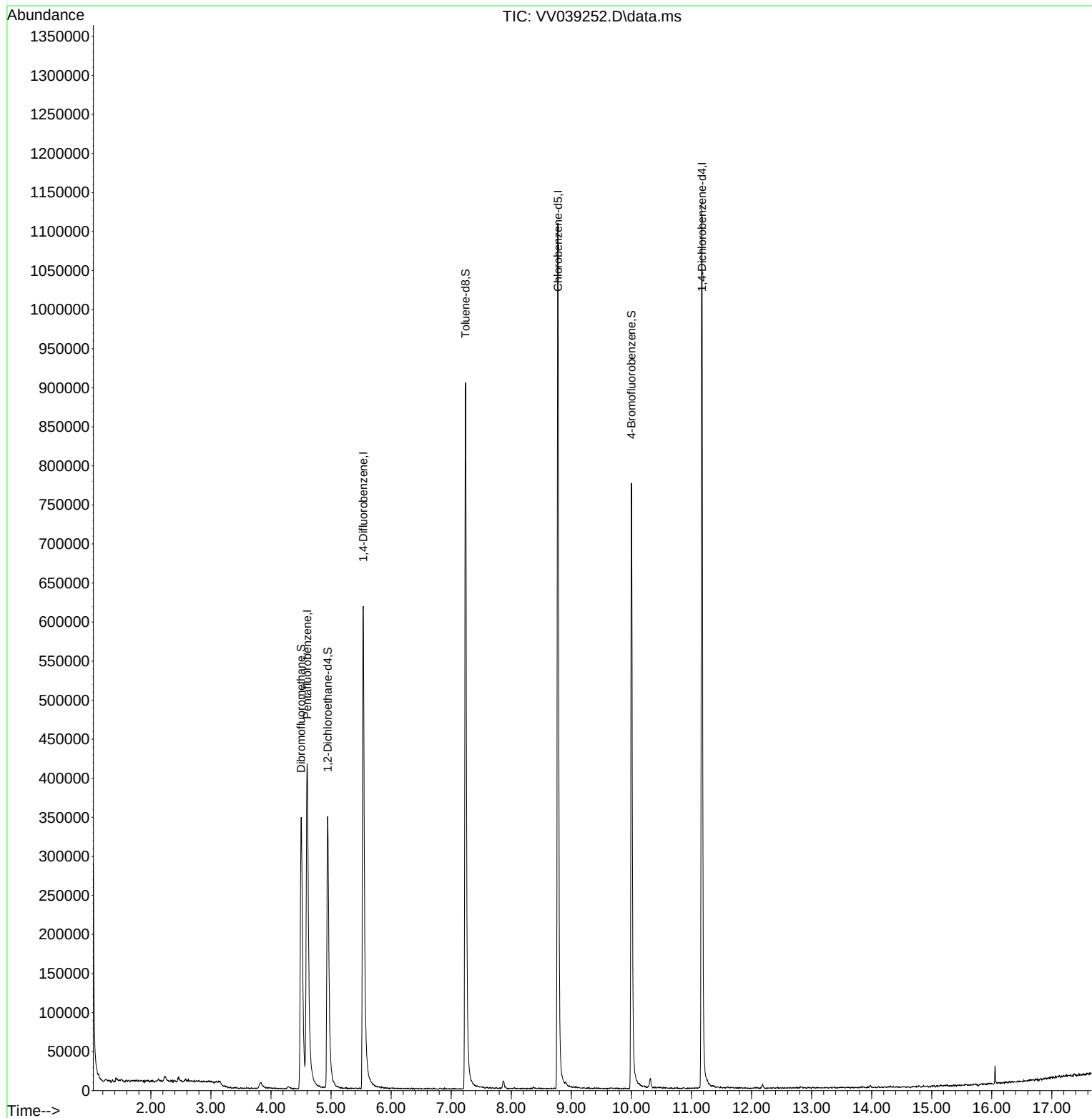
Target Compounds	Qvalue

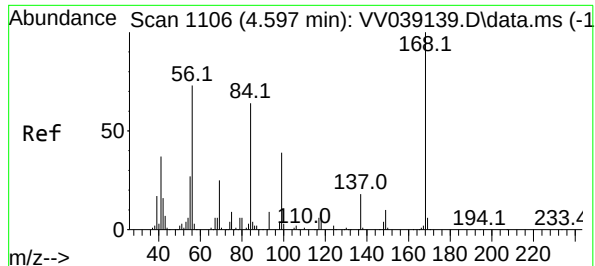
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV100325\
Data File : VV039252.D
Acq On : 03 Oct 2025 16:11
Operator : SY/MD
Sample : Q3254-01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-1

Quant Time: Oct 04 01:12:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

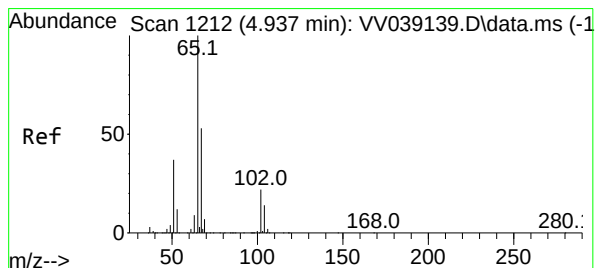
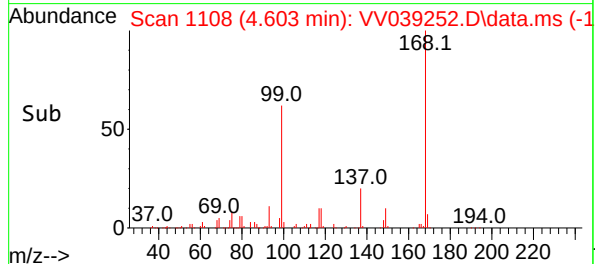
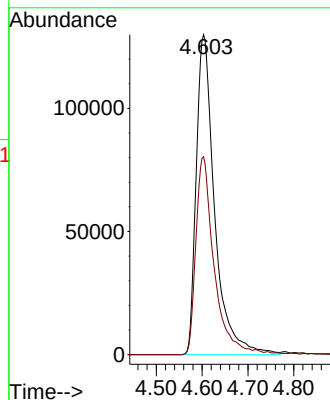
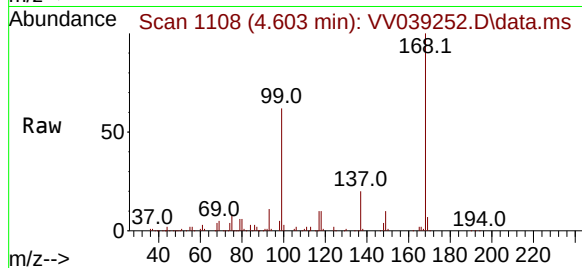




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.603 min Scan# 1106
Delta R.T. 0.006 min
Lab File: VV039252.D
Acq: 03 Oct 2025 16:11

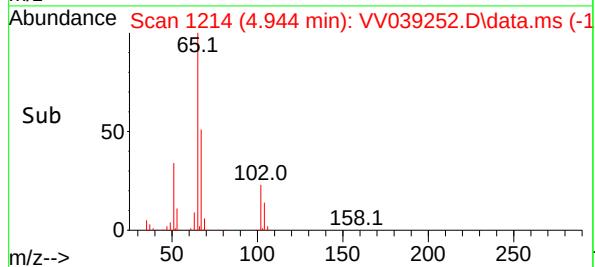
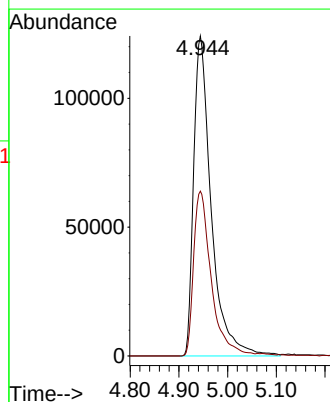
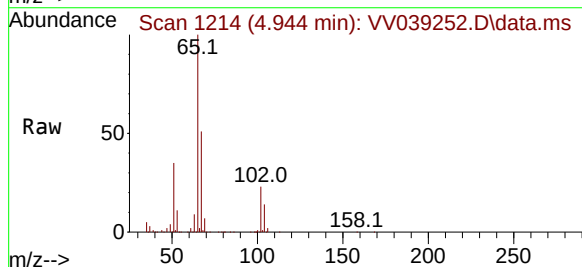
Instrument :
MSVOA_V
ClientSampleId :
MW-1

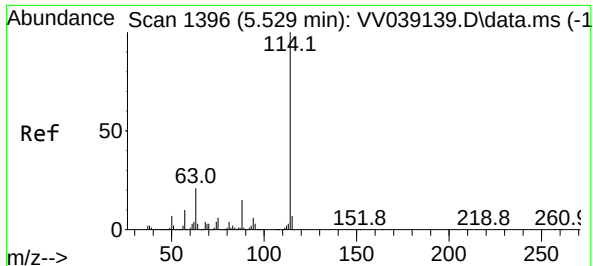
Tgt Ion:168 Resp: 361761
Ion Ratio Lower Upper
168 100
99 61.8 49.6 74.4



#33
1,2-Dichloroethane-d4
Concen: 59.539 ug/l
RT: 4.944 min Scan# 1214
Delta R.T. 0.006 min
Lab File: VV039252.D
Acq: 03 Oct 2025 16:11

Tgt Ion: 65 Resp: 311732
Ion Ratio Lower Upper
65 100
67 51.6 0.0 107.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.535 min Scan# 11

Delta R.T. 0.006 min

Lab File: VV039252.D

Acq: 03 Oct 2025 16:11

Instrument :

MSVOA_V

ClientSampleId :

MW-1

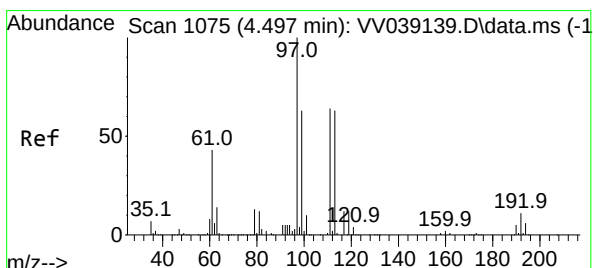
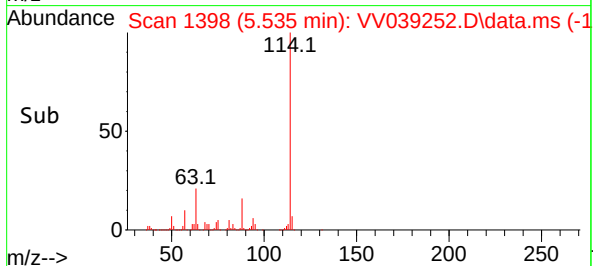
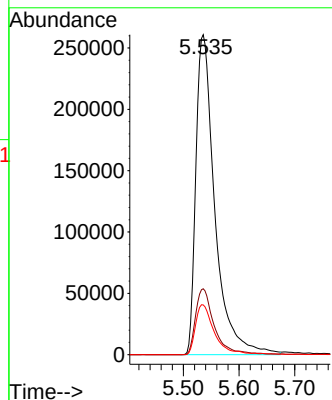
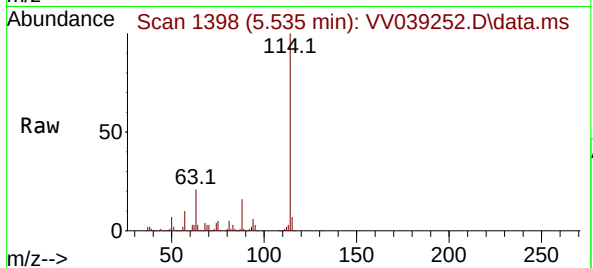
Tgt Ion:114 Resp: 619136

Ion Ratio Lower Upper

114 100

63 20.6 0.0 42.6

88 15.6 0.0 30.8



#35

Dibromofluoromethane

Concen: 58.784 ug/l

RT: 4.503 min Scan# 1077

Delta R.T. 0.006 min

Lab File: VV039252.D

Acq: 03 Oct 2025 16:11

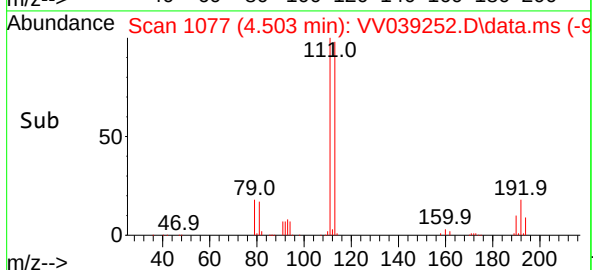
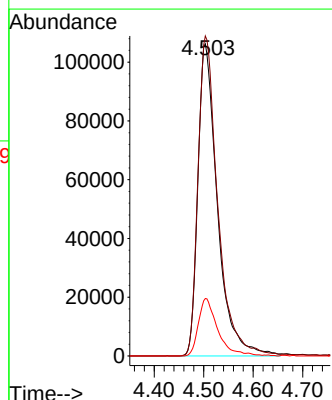
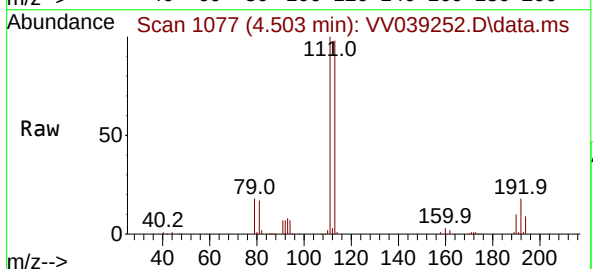
Tgt Ion:113 Resp: 292587

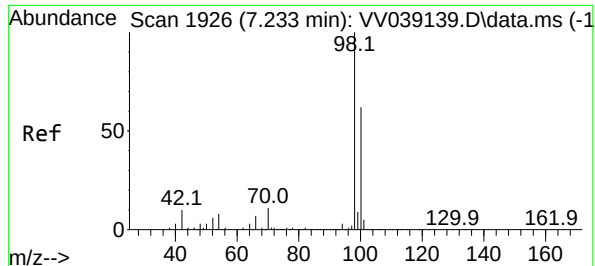
Ion Ratio Lower Upper

113 100

111 103.6 82.4 123.6

192 17.8 13.8 20.8





#50

Toluene-d8

Concen: 45.776 ug/l

RT: 7.240 min Scan# 1926

Delta R.T. 0.006 min

Lab File: VV039252.D

Acq: 03 Oct 2025 16:11

Instrument :

MSVOA_V

ClientSampleId :

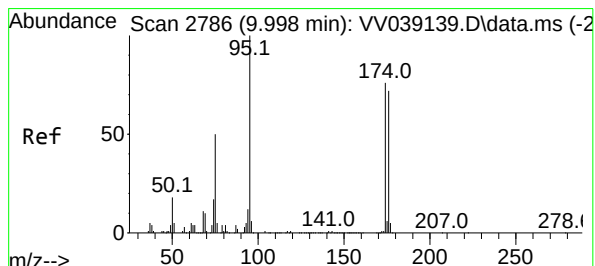
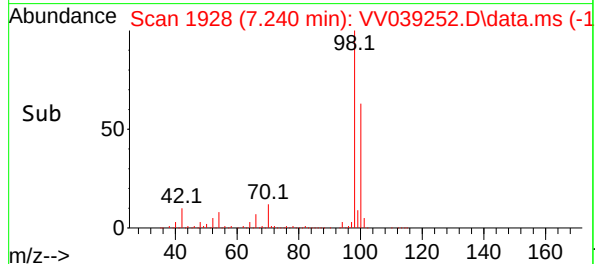
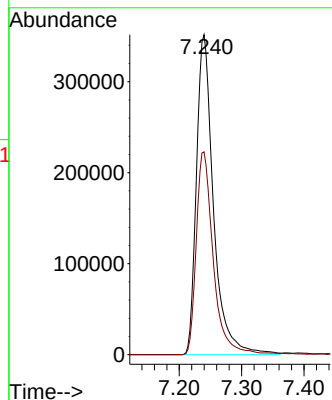
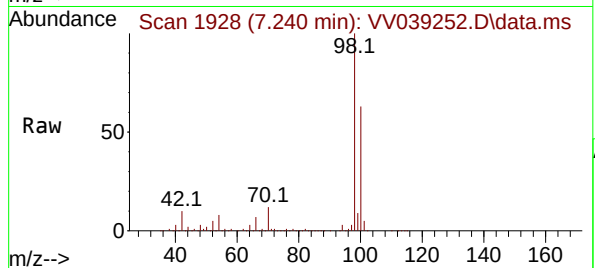
MW-1

Tgt Ion: 98 Resp: 669176

Ion Ratio Lower Upper

98 100

100 62.9 52.2 78.2



#62

4-Bromofluorobenzene

Concen: 45.050 ug/l

RT: 10.002 min Scan# 2787

Delta R.T. 0.003 min

Lab File: VV039252.D

Acq: 03 Oct 2025 16:11

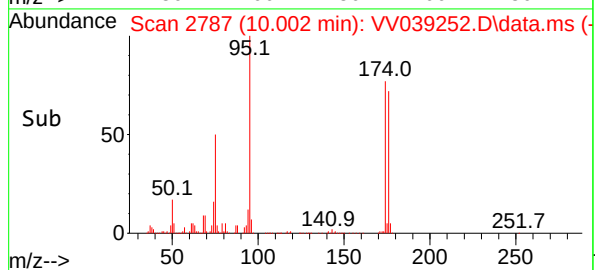
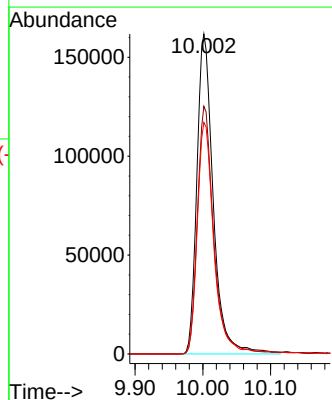
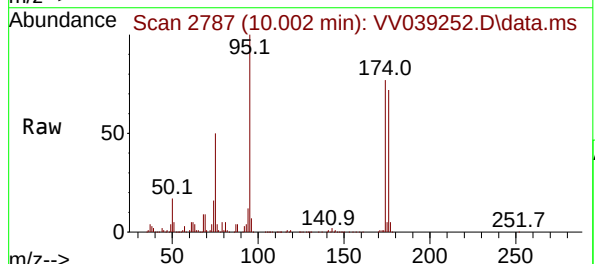
Tgt Ion: 95 Resp: 271111

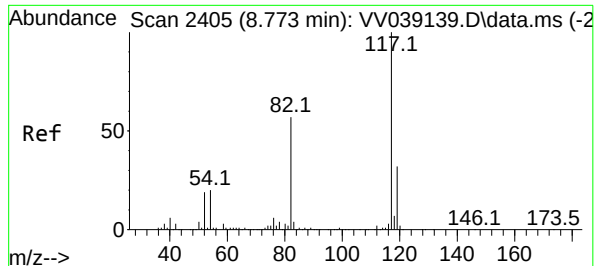
Ion Ratio Lower Upper

95 100

174 77.7 0.0 150.4

176 72.0 0.0 144.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 8.776 min Scan# 2405

Delta R.T. 0.003 min

Lab File: VV039252.D

Acq: 03 Oct 2025 16:11

Instrument :

MSVOA_V

ClientSampleId :

MW-1

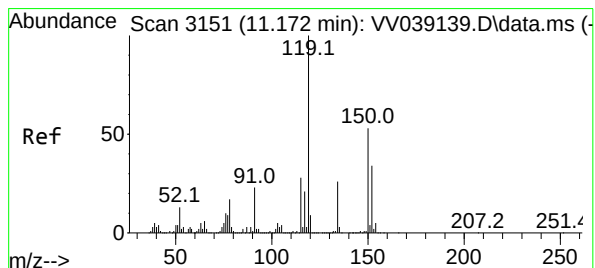
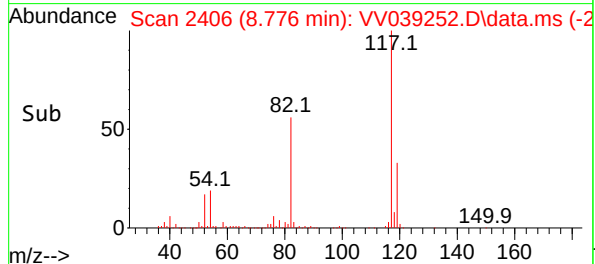
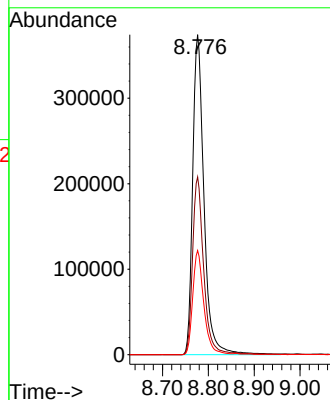
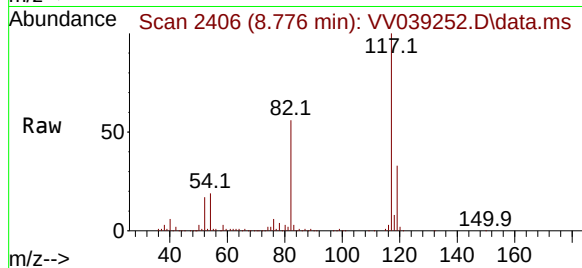
Tgt Ion:117 Resp: 640562

Ion Ratio Lower Upper

117 100

82 55.6 45.4 68.2

119 32.5 25.6 38.4



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.175 min Scan# 3152

Delta R.T. 0.003 min

Lab File: VV039252.D

Acq: 03 Oct 2025 16:11

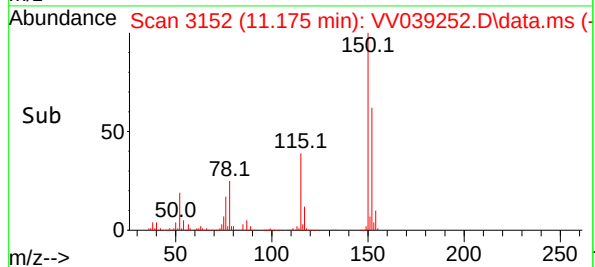
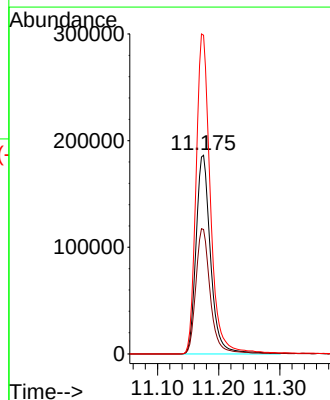
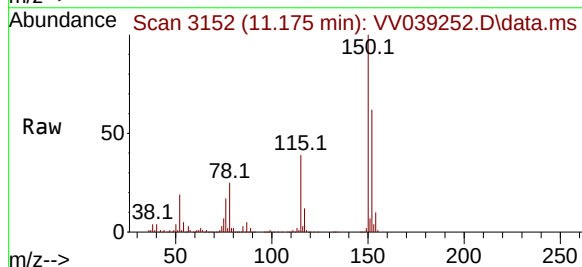
Tgt Ion:152 Resp: 308059

Ion Ratio Lower Upper

152 100

115 62.6 44.8 134.4

150 158.8 0.0 353.8



Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.		Date Collected:	09/29/25	
Project:	Ansonia Landfill 2025		Date Received:	09/30/25	
Client Sample ID:	MW-2		SDG No.:	Q3254	
Lab Sample ID:	Q3254-03		Matrix:	Water	
Analytical Method:	8260D		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039253.D	1	10/03/25 16:34	VV100325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	1.00	U	0.26	1.00	ug/L
75-00-3	Chloroethane	1.00	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.33	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.23	1.00	ug/L
107-13-1	Acrylonitrile	5.00	U	0.83	5.00	ug/L
67-64-1	Acetone	5.00	U	1.50	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.21	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.28	1.00	ug/L
108-05-4	Vinyl Acetate	5.00	U	0.66	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.19	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.22	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.20	1.00	ug/L
71-43-2	Benzene	1.00	U	0.15	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.20	1.00	ug/L
74-95-3	Dibromomethane	1.00	U	0.25	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.68	5.00	ug/L
108-88-3	Toluene	1.00	U	0.14	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.16	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.15	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.97	J	0.12	1.00	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	1.00	U	0.19	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.13	1.00	ug/L

Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.		Date Collected:	09/29/25	
Project:	Ansonia Landfill 2025		Date Received:	09/30/25	
Client Sample ID:	MW-2		SDG No.:	Q3254	
Lab Sample ID:	Q3254-03		Matrix:	Water	
Analytical Method:	8260D		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039253.D	1	10/03/25 16:34	VV100325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1330-20-7	Total Xylenes	3.00	U	0.36	3.00	ug/L
100-42-5	Styrene	1.00	U	0.15	1.00	ug/L
75-25-2	Bromoform	1.00	UQ	0.19	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.26	1.00	ug/L
96-18-4	1,2,3-Trichloropropane	1.00	U	0.35	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.53	1.00	ug/L
74-88-4	Methyl Iodide	5.00	U	0.83	5.00	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	5.00	U	0.84	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	58.7		74 - 125	117%	SPK: 50
1868-53-7	Dibromofluoromethane	61.4		75 - 124	123%	SPK: 50
2037-26-5	Toluene-d8	46.7		86 - 113	93%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.2		77 - 121	92%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	309000	4.603			
540-36-3	1,4-Difluorobenzene	515000	5.535			
3114-55-4	Chlorobenzene-d5	545000	8.776			
3855-82-1	1,4-Dichlorobenzene-d4	261000	11.172			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV100325\
Data File : VV039253.D
Acq On : 03 Oct 2025 16:34
Operator : SY/MD
Sample : Q3254-03
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-2

Quant Time: Oct 04 01:13:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

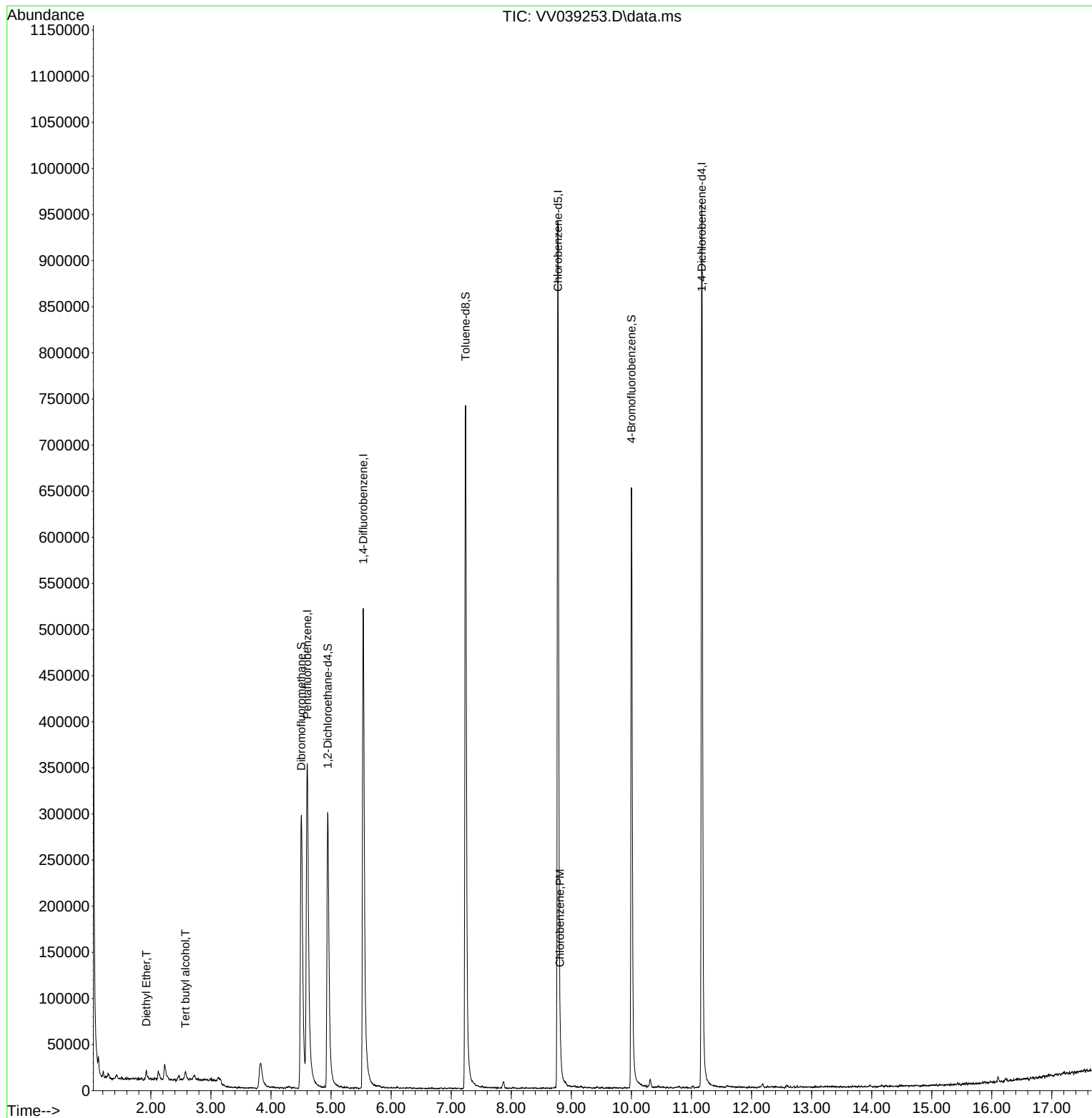
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.603	168	308662	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	515390	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	544820	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	261173	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.944	65	262159	58.685	ug/l	0.00
Spiked Amount	50.000	Range 81 - 118	Recovery	= 117.360%		
35) Dibromofluoromethane	4.506	113	254272	61.369	ug/l	0.00
Spiked Amount	50.000	Range 80 - 119	Recovery	= 122.740%#		
50) Toluene-d8	7.239	98	568796	46.741	ug/l	0.00
Spiked Amount	50.000	Range 89 - 112	Recovery	= 93.480%		
62) 4-Bromofluorobenzene	10.001	95	231239	46.159	ug/l	0.00
Spiked Amount	50.000	Range 85 - 114	Recovery	= 92.320%		
Target Compounds						Qvalue
8) Diethyl Ether	1.928	74	4207	1.394	ug/l	80
11) Tert butyl alcohol	2.574	59	8213	8.699	ug/l	97
65) Chlorobenzene	8.812	112	14731	0.971	ug/l	98

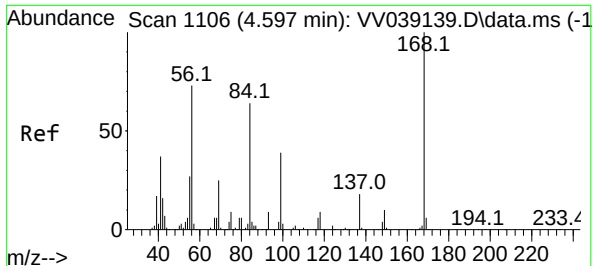
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV100325\
Data File : VV039253.D
Acq On : 03 Oct 2025 16:34
Operator : SY/MD
Sample : Q3254-03
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-2

Quant Time: Oct 04 01:13:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

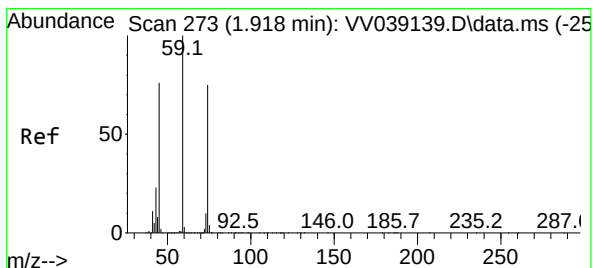
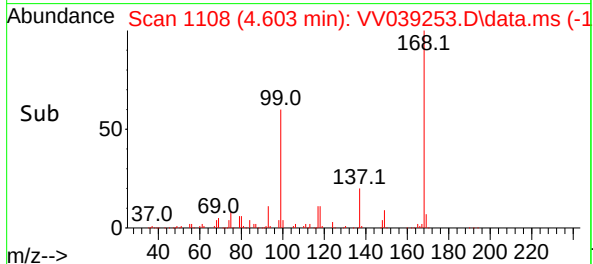
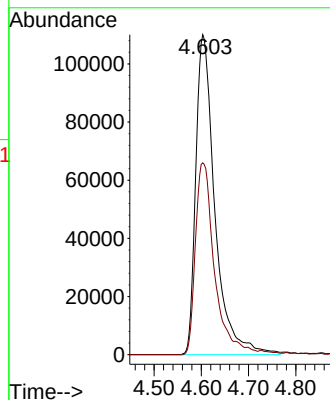
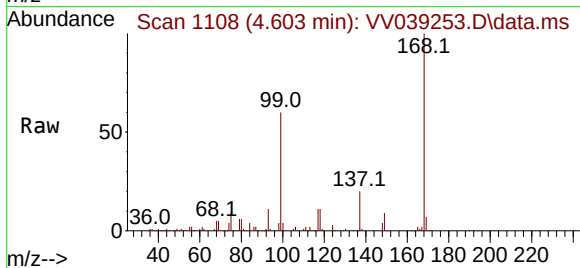




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.603 min Scan# 1108
Delta R.T. 0.006 min
Lab File: VV039253.D
Acq: 03 Oct 2025 16:34

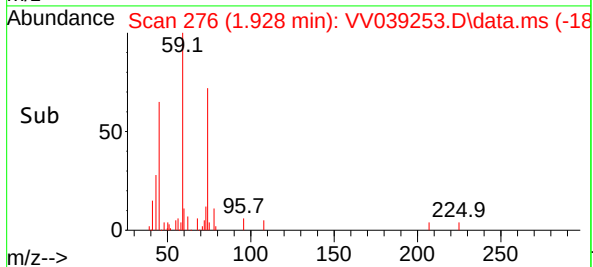
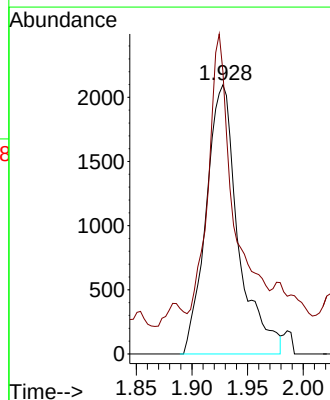
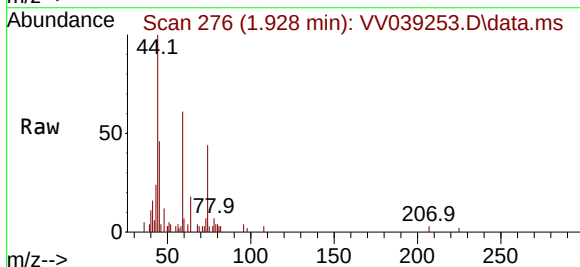
Instrument :
MSVOA_V
ClientSampleId :
MW-2

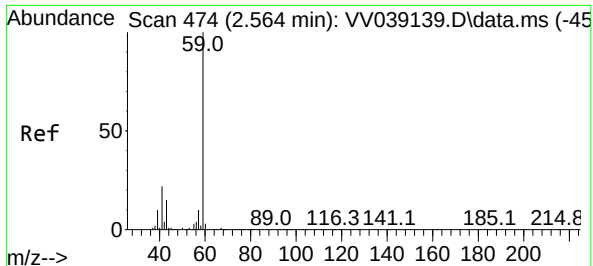
Tgt Ion:168 Resp: 308662
Ion Ratio Lower Upper
168 100
99 59.9 49.6 74.4



#8
Diethyl Ether
Concen: 1.394 ug/l
RT: 1.928 min Scan# 276
Delta R.T. 0.010 min
Lab File: VV039253.D
Acq: 03 Oct 2025 16:34

Tgt Ion: 74 Resp: 4207
Ion Ratio Lower Upper
74 100
45 78.9 49.6 148.8





#11

Tert butyl alcohol

Concen: 8.699 ug/l

RT: 2.574 min Scan# 41

Delta R.T. 0.010 min

Lab File: VV039253.D

Acq: 03 Oct 2025 16:34

Instrument :

MSVOA_V

ClientSampleId :

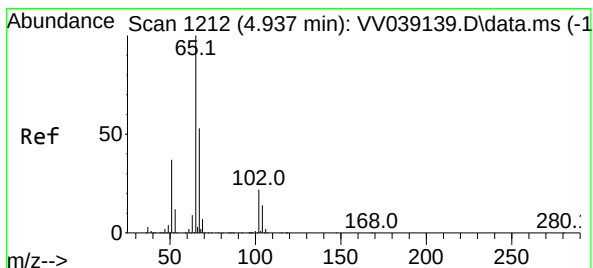
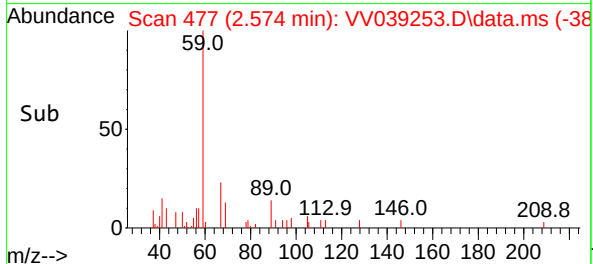
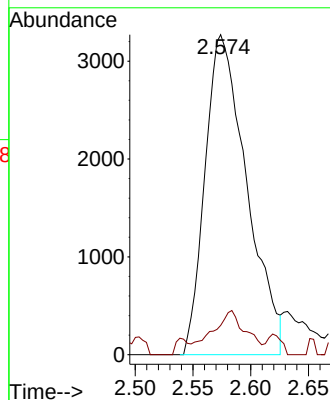
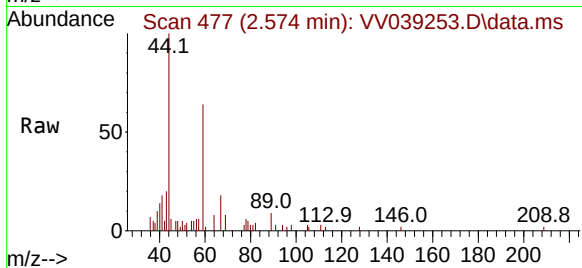
MW-2

Tgt Ion: 59 Resp: 8213

Ion Ratio Lower Upper

59 100

57 11.0 7.8 11.8



#33

1,2-Dichloroethane-d4

Concen: 58.685 ug/l

RT: 4.944 min Scan# 1214

Delta R.T. 0.006 min

Lab File: VV039253.D

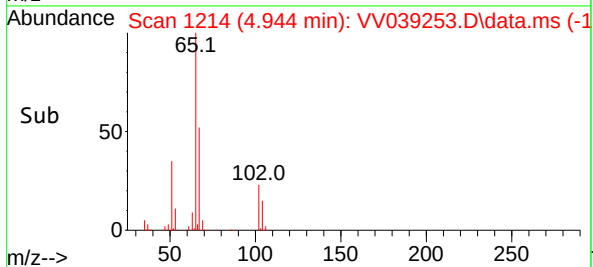
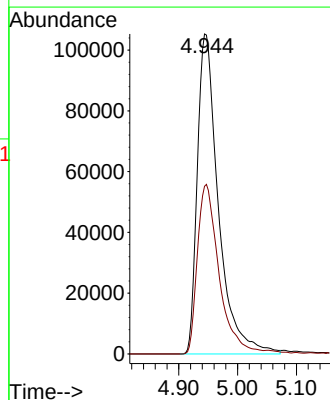
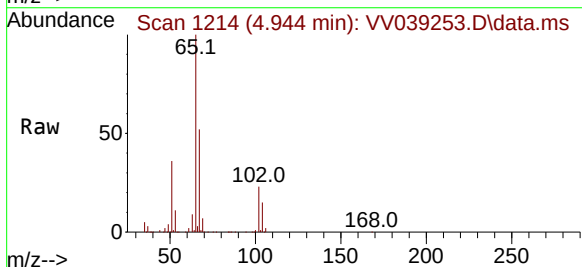
Acq: 03 Oct 2025 16:34

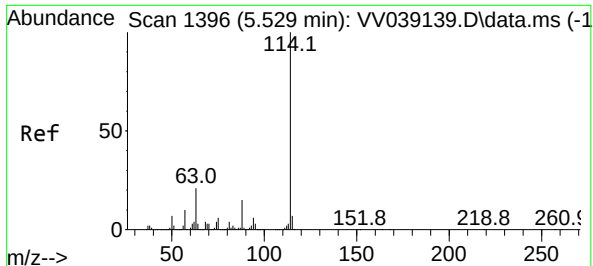
Tgt Ion: 65 Resp: 262159

Ion Ratio Lower Upper

65 100

67 54.3 0.0 107.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.535 min Scan# 11

Delta R.T. 0.006 min

Lab File: VV039253.D

Acq: 03 Oct 2025 16:34

Instrument :

MSVOA_V

ClientSampleId :

MW-2

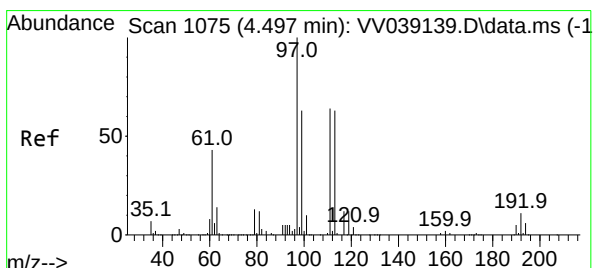
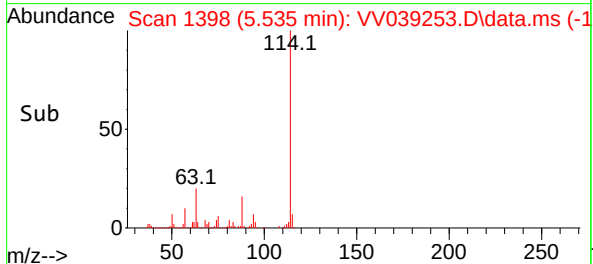
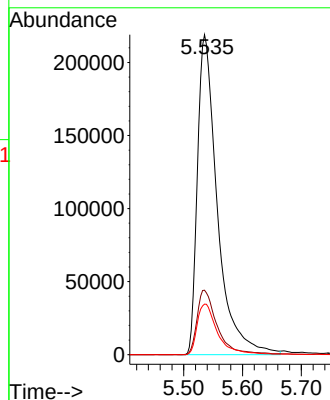
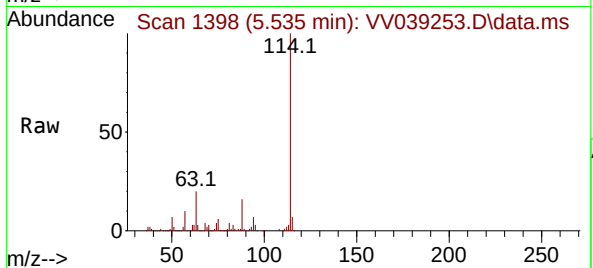
Tgt Ion:114 Resp: 515390

Ion Ratio Lower Upper

114 100

63 20.2 0.0 42.6

88 15.8 0.0 30.8



#35

Dibromofluoromethane

Concen: 61.369 ug/l

RT: 4.506 min Scan# 1078

Delta R.T. 0.010 min

Lab File: VV039253.D

Acq: 03 Oct 2025 16:34

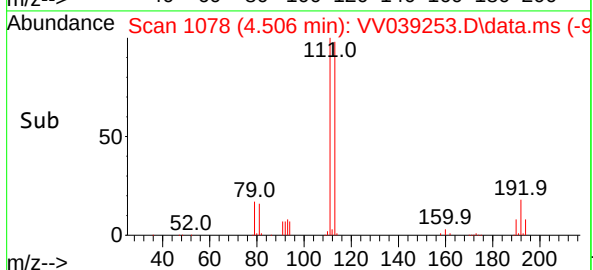
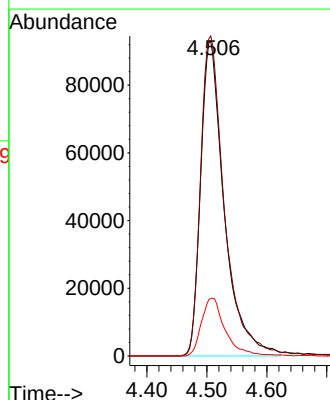
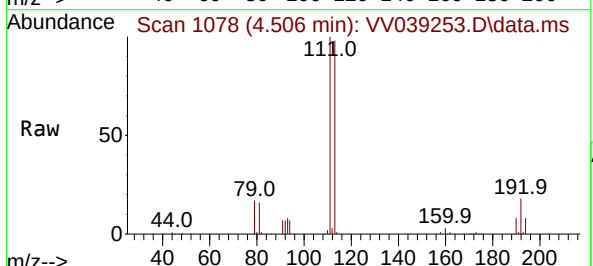
Tgt Ion:113 Resp: 254272

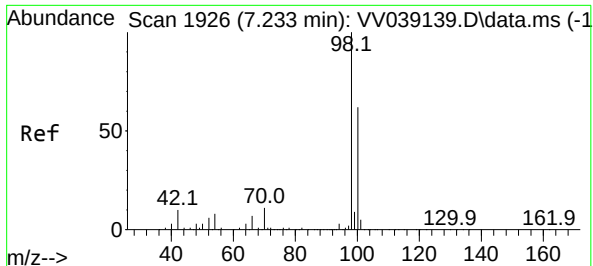
Ion Ratio Lower Upper

113 100

111 103.3 82.4 123.6

192 18.6 13.8 20.8

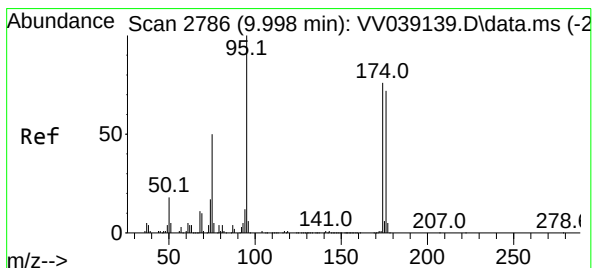
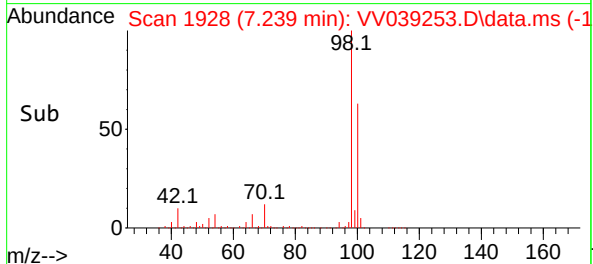
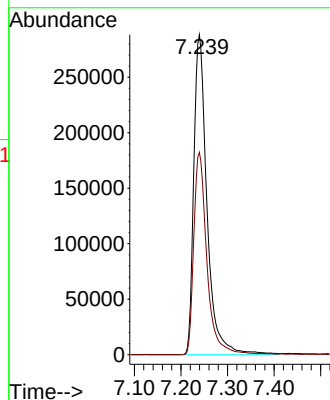
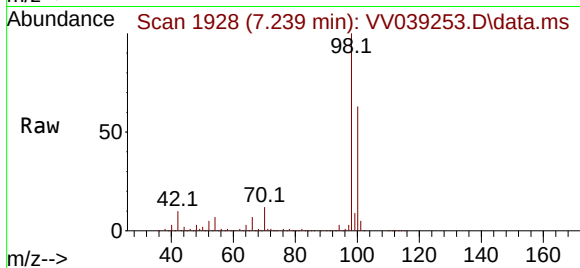




#50
Toluene-d8
Concen: 46.741 ug/l
RT: 7.239 min Scan# 1926
Delta R.T. 0.006 min
Lab File: VV039253.D
Acq: 03 Oct 2025 16:34

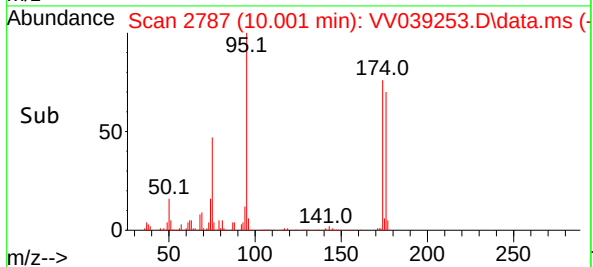
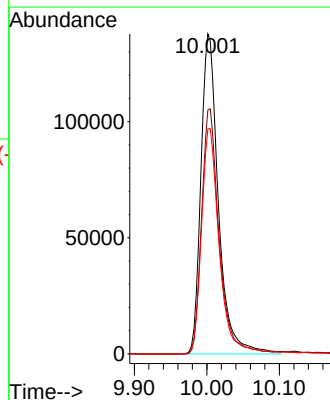
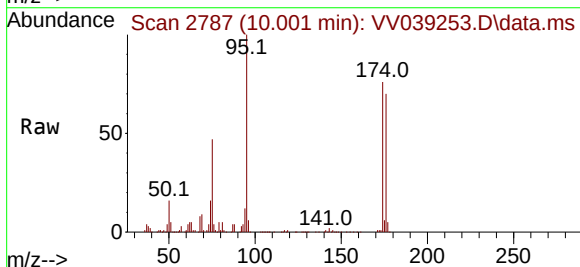
Instrument :
MSVOA_V
ClientSampleId :
MW-2

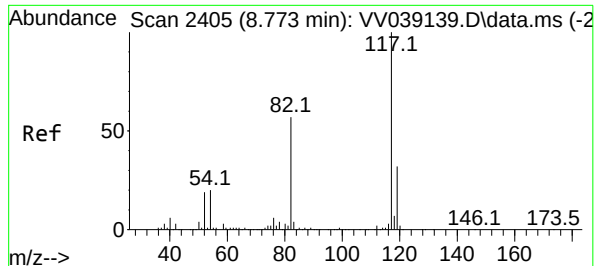
Tgt Ion: 98 Resp: 568796
Ion Ratio Lower Upper
98 100
100 62.7 52.2 78.2



#62
4-Bromofluorobenzene
Concen: 46.159 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039253.D
Acq: 03 Oct 2025 16:34

Tgt Ion: 95 Resp: 231239
Ion Ratio Lower Upper
95 100
174 76.8 0.0 150.4
176 71.2 0.0 144.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 8.776 min Scan# 2405

Delta R.T. 0.003 min

Lab File: VV039253.D

Acq: 03 Oct 2025 16:34

Instrument :

MSVOA_V

ClientSampleId :

MW-2

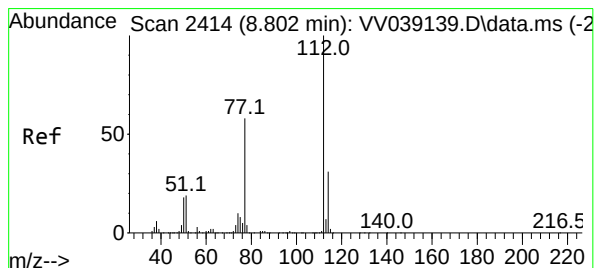
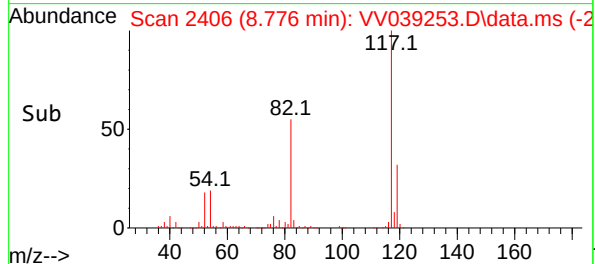
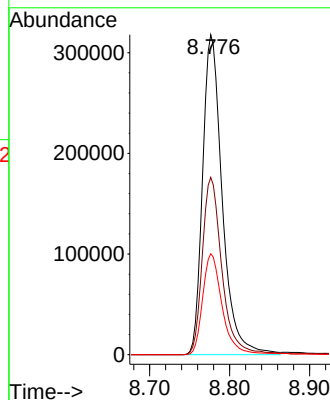
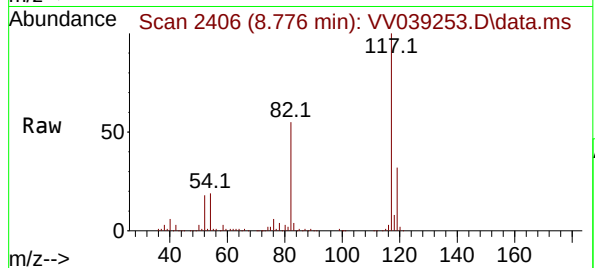
Tgt Ion:117 Resp: 544820

Ion Ratio Lower Upper

117 100

82 55.4 45.4 68.2

119 31.6 25.6 38.4



#65

Chlorobenzene

Concen: 0.971 ug/l

RT: 8.812 min Scan# 2417

Delta R.T. 0.010 min

Lab File: VV039253.D

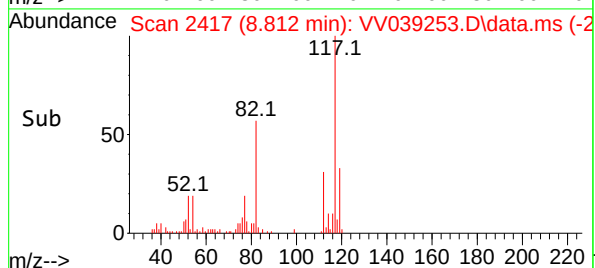
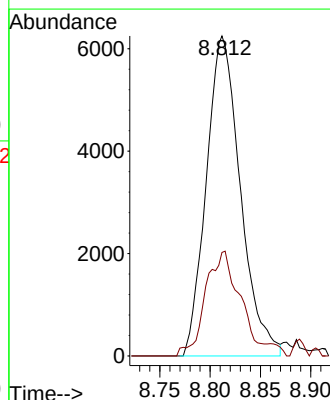
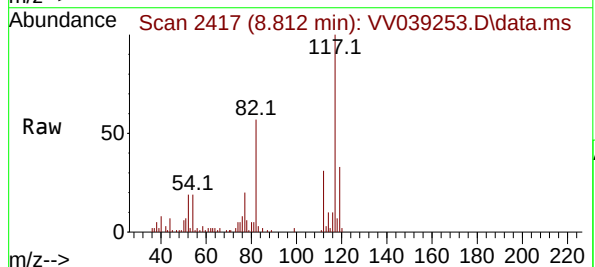
Acq: 03 Oct 2025 16:34

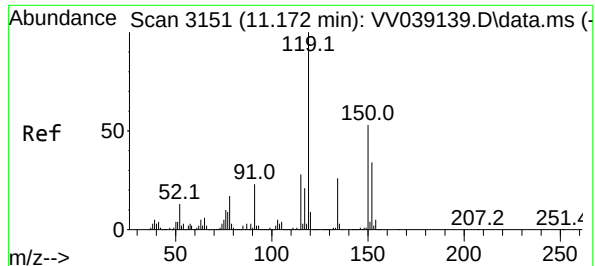
Tgt Ion:112 Resp: 14731

Ion Ratio Lower Upper

112 100

114 29.9 24.6 37.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.172 min Scan# 31

Delta R.T. -0.000 min

Lab File: VV039253.D

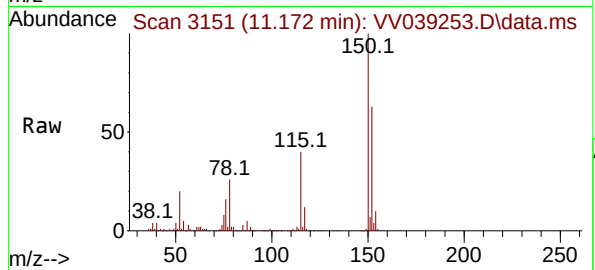
Acq: 03 Oct 2025 16:34

Instrument :

MSVOA_V

ClientSampleId :

MW-2



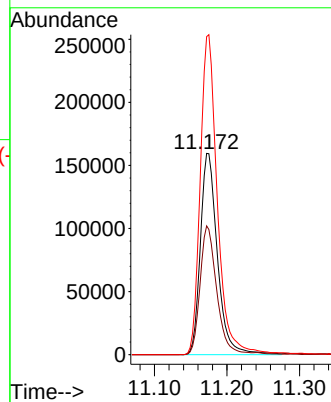
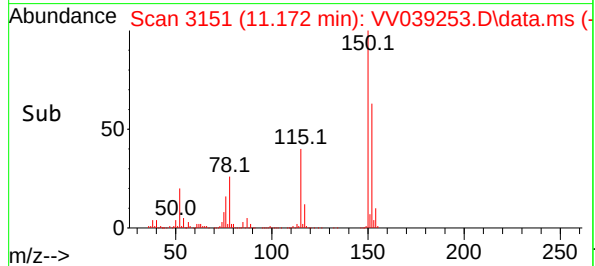
Tgt Ion:152 Resp: 261173

Ion Ratio Lower Upper

152 100

115 62.2 44.8 134.4

150 159.8 0.0 353.8



Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	09/29/25
Project:	Ansonia Landfill 2025	Date Received:	09/30/25
Client Sample ID:	MW-3	SDG No.:	Q3254
Lab Sample ID:	Q3254-05	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039254.D	1	10/03/25 16:56	VV100325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	1.00	U	0.26	1.00	ug/L
75-00-3	Chloroethane	1.00	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.33	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.23	1.00	ug/L
107-13-1	Acrylonitrile	5.00	U	0.83	5.00	ug/L
67-64-1	Acetone	5.00	U	1.50	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.21	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.28	1.00	ug/L
108-05-4	Vinyl Acetate	5.00	U	0.66	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.19	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.22	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.20	1.00	ug/L
71-43-2	Benzene	1.00	U	0.15	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.20	1.00	ug/L
74-95-3	Dibromomethane	1.00	U	0.25	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.68	5.00	ug/L
108-88-3	Toluene	1.00	U	0.14	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.16	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.15	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.12	1.00	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	1.00	U	0.19	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.13	1.00	ug/L

Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	09/29/25
Project:	Ansonia Landfill 2025	Date Received:	09/30/25
Client Sample ID:	MW-3	SDG No.:	Q3254
Lab Sample ID:	Q3254-05	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
Soil Aliquot Vol:			uL
GC Column:	DB-624UI	ID :	0.18
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039254.D	1	10/03/25 16:56	VV100325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1330-20-7	Total Xylenes	3.00	U	0.36	3.00	ug/L
100-42-5	Styrene	1.00	U	0.15	1.00	ug/L
75-25-2	Bromoform	1.00	UQ	0.19	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.26	1.00	ug/L
96-18-4	1,2,3-Trichloropropane	1.00	U	0.35	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.53	1.00	ug/L
74-88-4	Methyl Iodide	5.00	U	0.83	5.00	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	5.00	U	0.84	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	58.4		74 - 125	117%	SPK: 50
1868-53-7	Dibromofluoromethane	56.4		75 - 124	113%	SPK: 50
2037-26-5	Toluene-d8	45.2		86 - 113	90%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.3		77 - 121	91%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	448000	4.603			
540-36-3	1,4-Difluorobenzene	801000	5.535			
3114-55-4	Chlorobenzene-d5	824000	8.776			
3855-82-1	1,4-Dichlorobenzene-d4	400000	11.172			

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV100325\
Data File : VV039254.D
Acq On : 03 Oct 2025 16:56
Operator : SY/MD
Sample : Q3254-05
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-3

Quant Time: Oct 04 01:13:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.603	168	448224	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	801027	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	823576	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	400173	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.940	65	378692	58.376	ug/l	0.00
Spiked Amount	50.000	Range	81 - 118	Recovery	=	116.760%
35) Dibromofluoromethane	4.503	113	363392	56.431	ug/l	0.00
Spiked Amount	50.000	Range	80 - 119	Recovery	=	112.860%
50) Toluene-d8	7.239	98	854565	45.183	ug/l	0.00
Spiked Amount	50.000	Range	89 - 112	Recovery	=	90.360%
62) 4-Bromofluorobenzene	10.001	95	352316	45.250	ug/l	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	=	90.500%

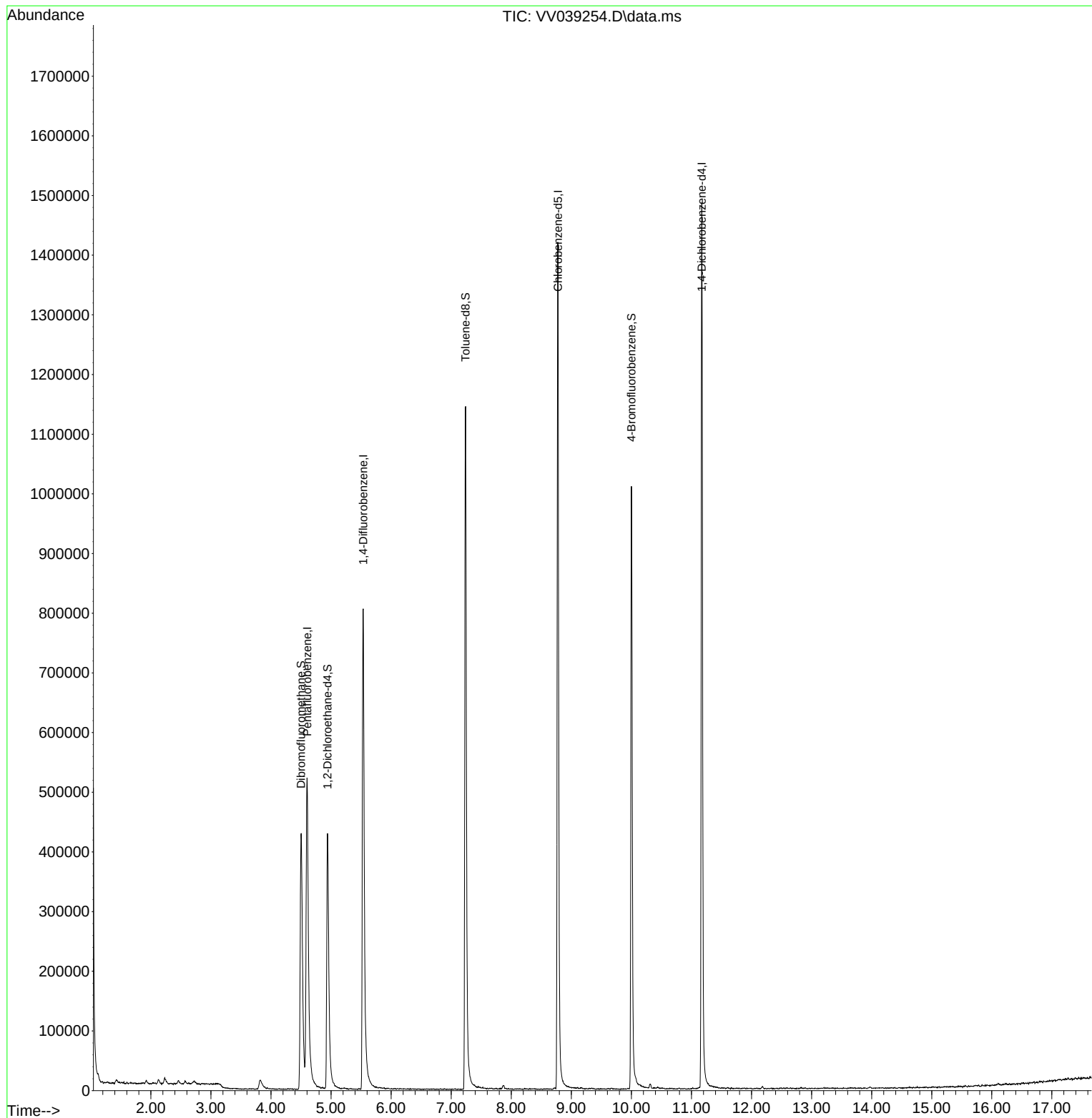
Target Compounds	Qvalue

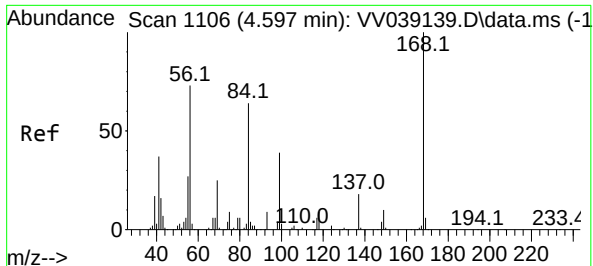
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV100325\
Data File : VV039254.D
Acq On : 03 Oct 2025 16:56
Operator : SY/MD
Sample : Q3254-05
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-3

Quant Time: Oct 04 01:13:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

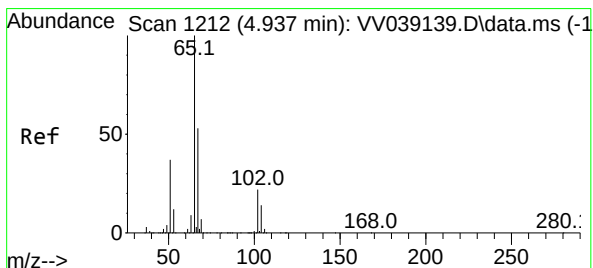
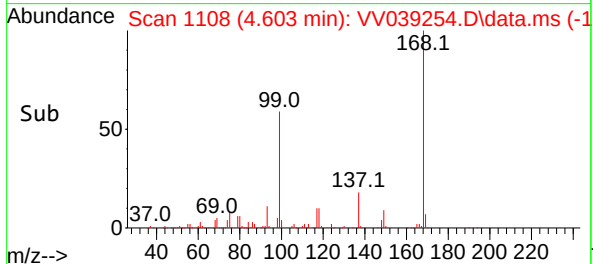
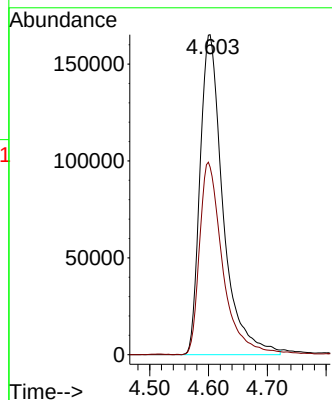
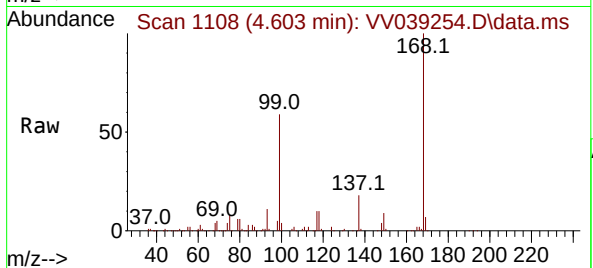




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.603 min Scan# 1108
Delta R.T. 0.006 min
Lab File: VV039254.D
Acq: 03 Oct 2025 16:56

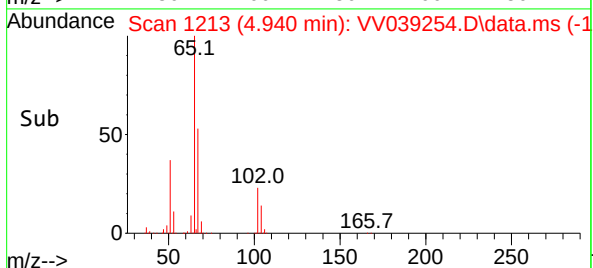
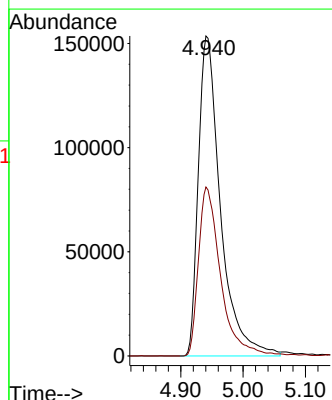
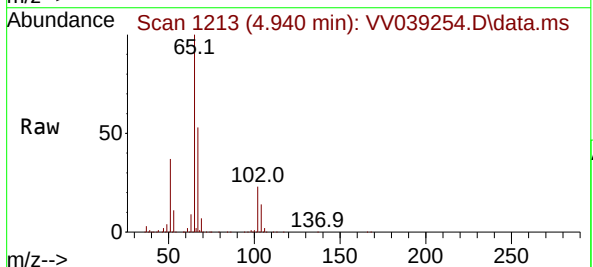
Instrument :
MSVOA_V
ClientSampleId :
MW-3

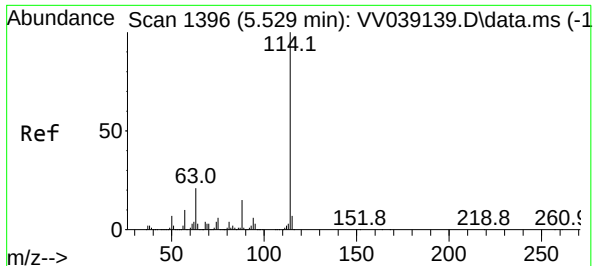
Tgt Ion:168 Resp: 448224
Ion Ratio Lower Upper
168 100
99 58.5 49.6 74.4



#33
1,2-Dichloroethane-d4
Concen: 58.376 ug/l
RT: 4.940 min Scan# 1213
Delta R.T. 0.003 min
Lab File: VV039254.D
Acq: 03 Oct 2025 16:56

Tgt Ion: 65 Resp: 378692
Ion Ratio Lower Upper
65 100
67 52.9 0.0 107.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.535 min Scan# 11

Delta R.T. 0.006 min

Lab File: VV039254.D

Acq: 03 Oct 2025 16:56

Instrument :

MSVOA_V

ClientSampleId :

MW-3

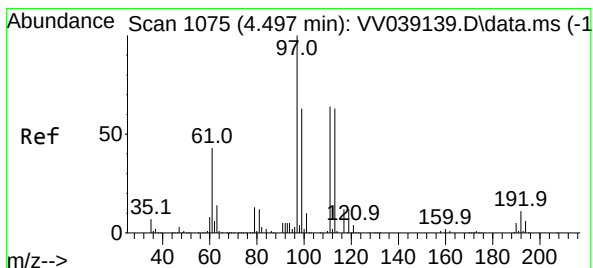
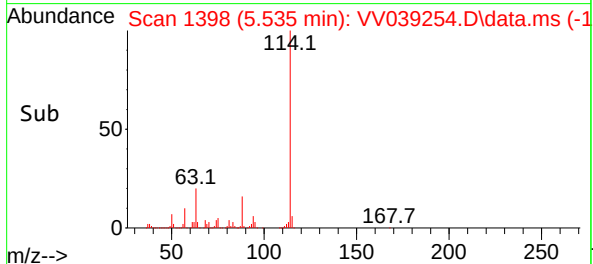
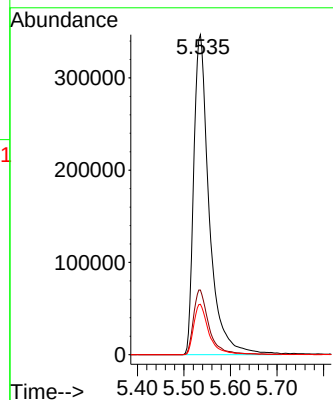
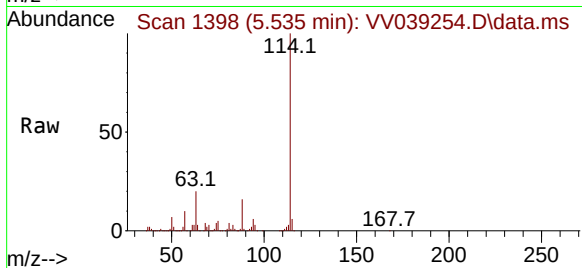
Tgt Ion:114 Resp: 801027

Ion Ratio Lower Upper

114 100

63 20.2 0.0 42.6

88 15.8 0.0 30.8



#35

Dibromofluoromethane

Concen: 56.431 ug/l

RT: 4.503 min Scan# 1077

Delta R.T. 0.006 min

Lab File: VV039254.D

Acq: 03 Oct 2025 16:56

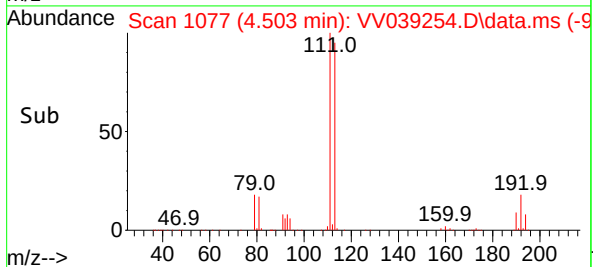
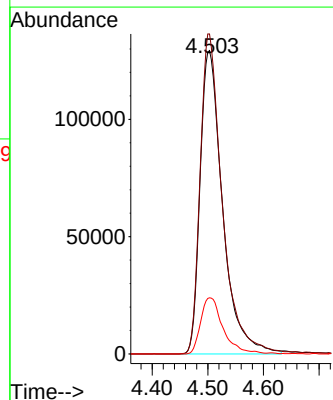
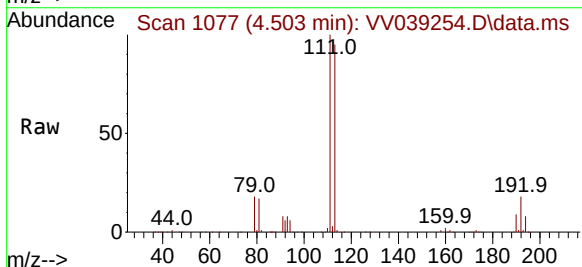
Tgt Ion:113 Resp: 363392

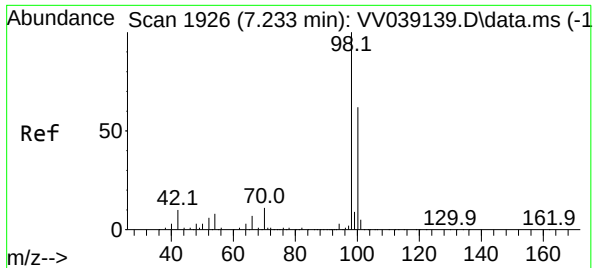
Ion Ratio Lower Upper

113 100

111 103.7 82.4 123.6

192 18.4 13.8 20.8

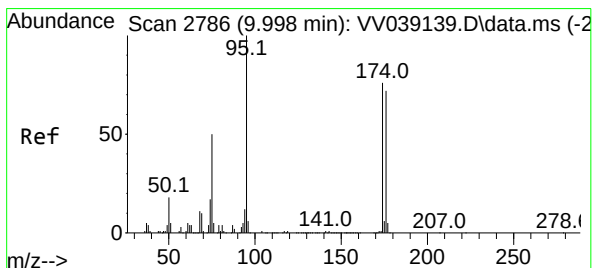
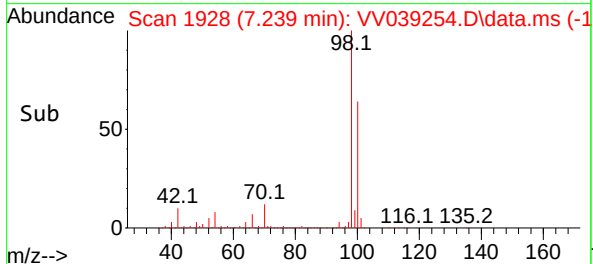
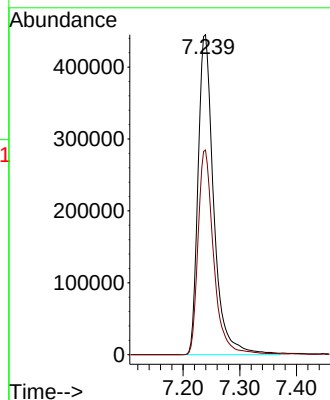
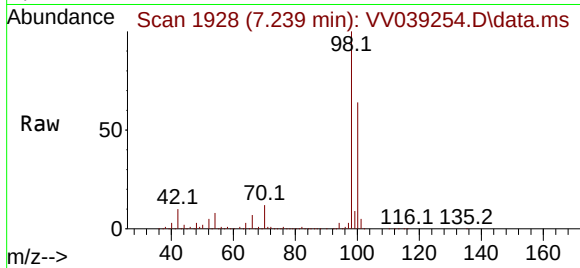




#50
Toluene-d8
Concen: 45.183 ug/l
RT: 7.239 min Scan# 1926
Delta R.T. 0.006 min
Lab File: VV039254.D
Acq: 03 Oct 2025 16:56

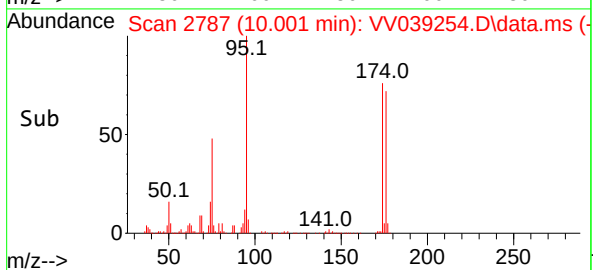
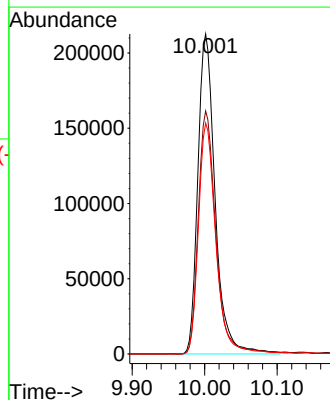
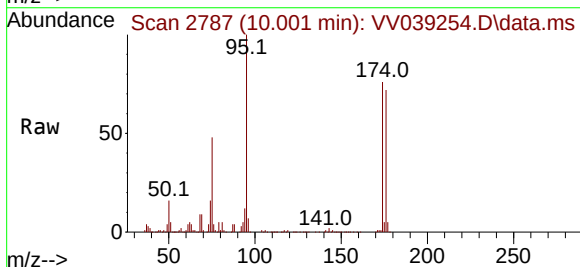
Instrument :
MSVOA_V
ClientSampleId :
MW-3

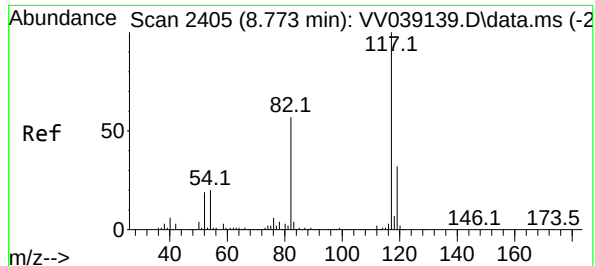
Tgt Ion: 98 Resp: 854565
Ion Ratio Lower Upper
98 100
100 63.8 52.2 78.2



#62
4-Bromofluorobenzene
Concen: 45.250 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039254.D
Acq: 03 Oct 2025 16:56

Tgt Ion: 95 Resp: 352316
Ion Ratio Lower Upper
95 100
174 77.3 0.0 150.4
176 72.7 0.0 144.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 8.776 min Scan# 2405

Delta R.T. 0.003 min

Lab File: VV039254.D

Acq: 03 Oct 2025 16:56

Instrument :

MSVOA_V

ClientSampleId :

MW-3

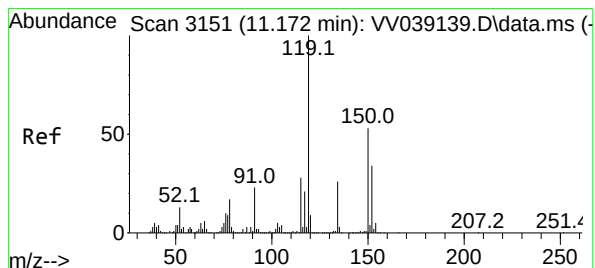
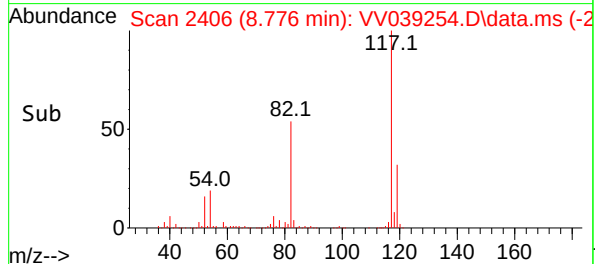
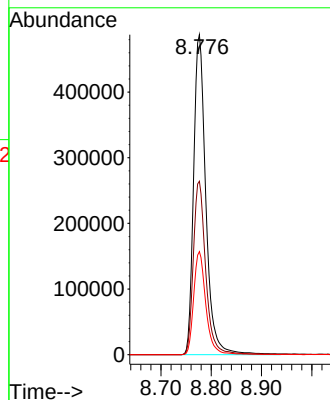
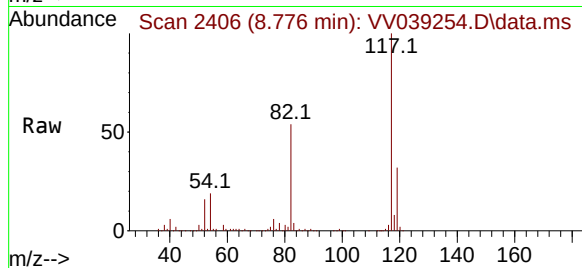
Tgt Ion:117 Resp: 823576

Ion Ratio Lower Upper

117 100

82 54.2 45.4 68.2

119 32.2 25.6 38.4



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.172 min Scan# 3151

Delta R.T. -0.000 min

Lab File: VV039254.D

Acq: 03 Oct 2025 16:56

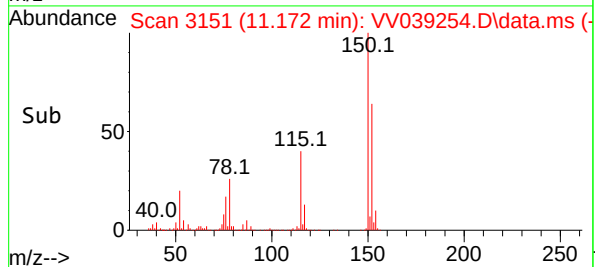
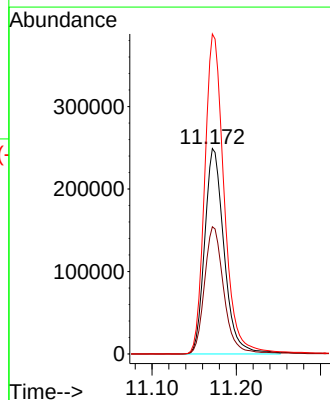
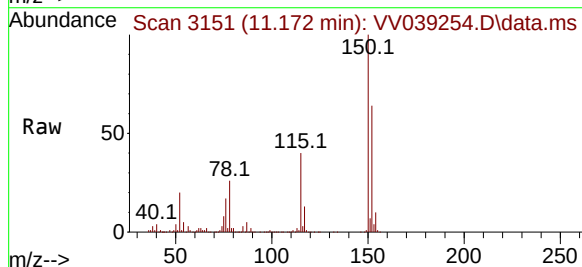
Tgt Ion:152 Resp: 400173

Ion Ratio Lower Upper

152 100

115 61.9 44.8 134.4

150 157.1 0.0 353.8



Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	09/29/25
Project:	Ansonia Landfill 2025	Date Received:	09/30/25
Client Sample ID:	MW-4	SDG No.:	Q3254
Lab Sample ID:	Q3254-07	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
Soil Aliquot Vol:			uL
GC Column:	DB-624UI	ID :	0.18
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039255.D	1	10/03/25 17:19	VV100325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	1.00	U	0.26	1.00	ug/L
75-00-3	Chloroethane	1.00	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.33	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.23	1.00	ug/L
107-13-1	Acrylonitrile	5.00	U	0.83	5.00	ug/L
67-64-1	Acetone	5.00	U	1.50	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.21	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.28	1.00	ug/L
108-05-4	Vinyl Acetate	5.00	U	0.66	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.19	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.22	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.20	1.00	ug/L
71-43-2	Benzene	1.00	U	0.15	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.20	1.00	ug/L
74-95-3	Dibromomethane	1.00	U	0.25	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.68	5.00	ug/L
108-88-3	Toluene	1.00	U	0.14	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.16	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.15	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.71	J	0.12	1.00	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	1.00	U	0.19	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.13	1.00	ug/L

Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	09/29/25
Project:	Ansonia Landfill 2025	Date Received:	09/30/25
Client Sample ID:	MW-4	SDG No.:	Q3254
Lab Sample ID:	Q3254-07	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
Soil Aliquot Vol:			uL
GC Column:	DB-624UI	ID :	0.18
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039255.D	1	10/03/25 17:19	VV100325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1330-20-7	Total Xylenes	3.00	U	0.36	3.00	ug/L
100-42-5	Styrene	1.00	U	0.15	1.00	ug/L
75-25-2	Bromoform	1.00	UQ	0.19	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.26	1.00	ug/L
96-18-4	1,2,3-Trichloropropane	1.00	U	0.35	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.53	1.00	ug/L
74-88-4	Methyl Iodide	5.00	U	0.83	5.00	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	5.00	U	0.84	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	57.5		74 - 125	115%	SPK: 50
1868-53-7	Dibromofluoromethane	57.4		75 - 124	115%	SPK: 50
2037-26-5	Toluene-d8	45.6		86 - 113	91%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.1		77 - 121	90%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	393000	4.603			
540-36-3	1,4-Difluorobenzene	674000	5.535			
3114-55-4	Chlorobenzene-d5	694000	8.776			
3855-82-1	1,4-Dichlorobenzene-d4	336000	11.172			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV100325\
Data File : VV039255.D
Acq On : 03 Oct 2025 17:19
Operator : SY/MD
Sample : Q3254-07
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-4

Quant Time: Oct 04 01:14:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

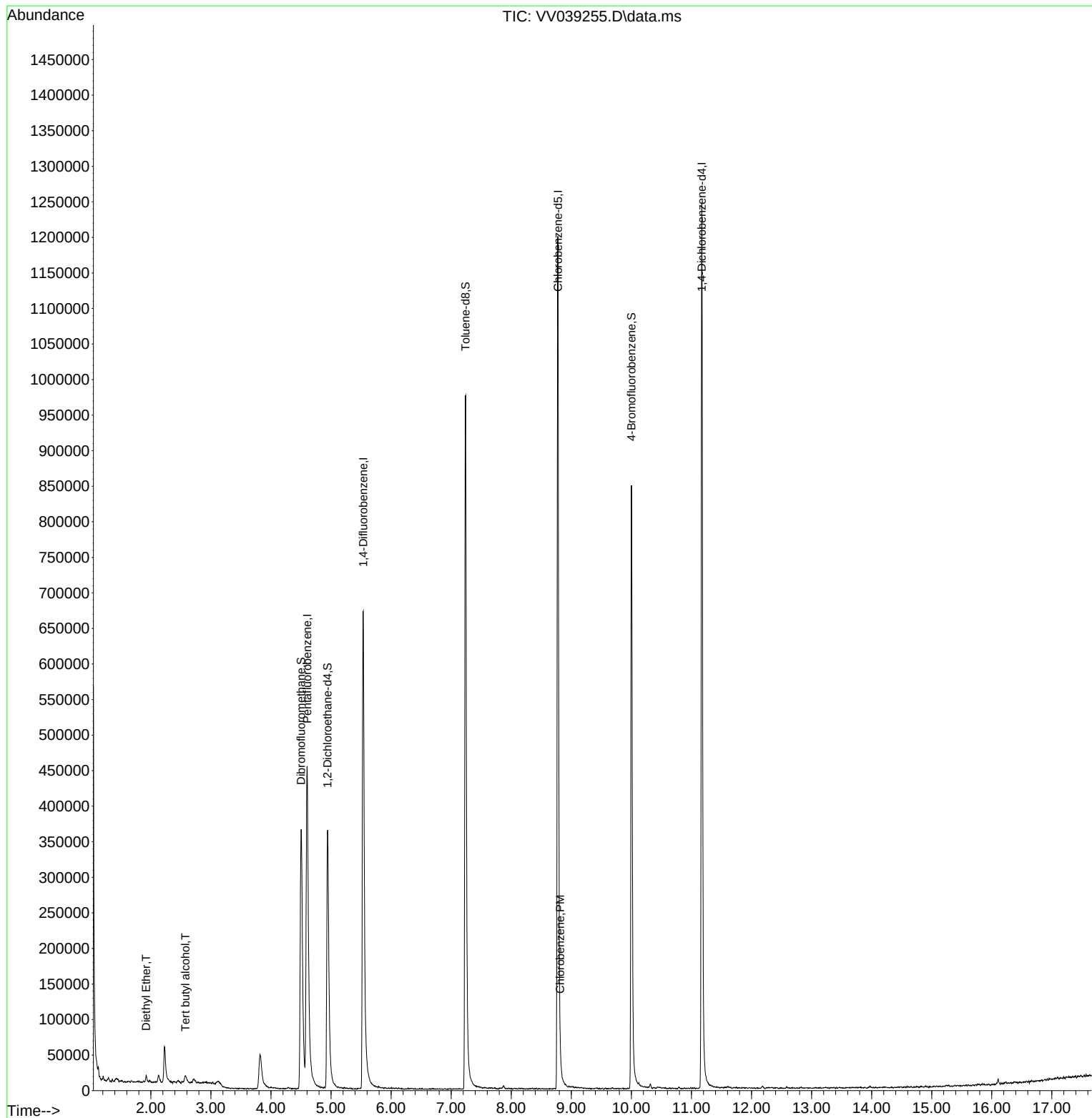
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.603	168	392891	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	674176	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	694020	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	336486	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.941	65	326864	57.483	ug/l	0.00
Spiked Amount	50.000	Range	81 - 118	Recovery	= 114.960%	
35) Dibromofluoromethane	4.503	113	311029	57.387	ug/l	0.00
Spiked Amount	50.000	Range	80 - 119	Recovery	= 114.780%	
50) Toluene-d8	7.240	98	725743	45.592	ug/l	0.00
Spiked Amount	50.000	Range	89 - 112	Recovery	= 91.180%	
62) 4-Bromofluorobenzene	10.002	95	295807	45.140	ug/l	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	= 90.280%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	1.921	74	3639	0.947	ug/l	94
11) Tert butyl alcohol	2.577	59	8573	7.133	ug/l	99
65) Chlorobenzene	8.815	112	13694	0.708	ug/l #	86

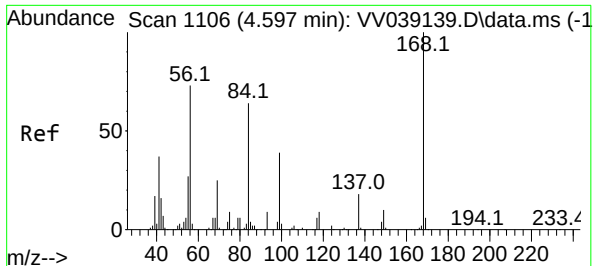
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV100325\
Data File : VV039255.D
Acq On : 03 Oct 2025 17:19
Operator : SY/MD
Sample : Q3254-07
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-4

Quant Time: Oct 04 01:14:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

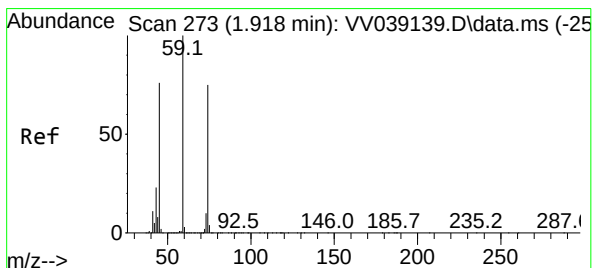
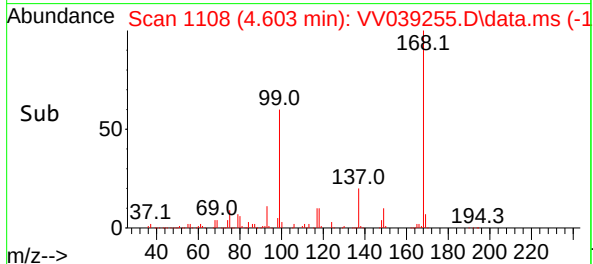
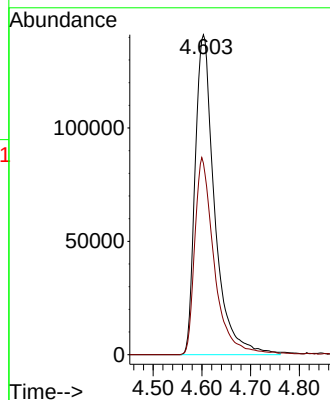
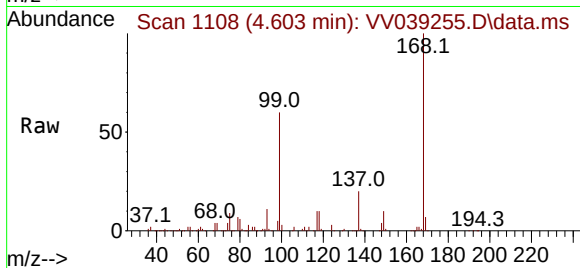




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.603 min Scan# 1108
Delta R.T. 0.006 min
Lab File: VV039255.D
Acq: 03 Oct 2025 17:19

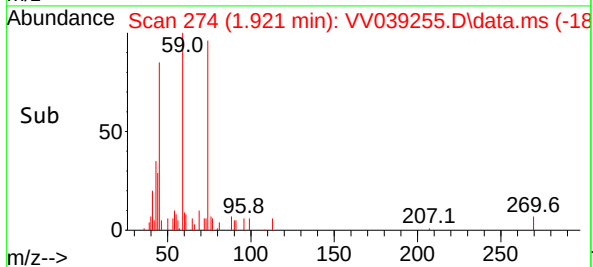
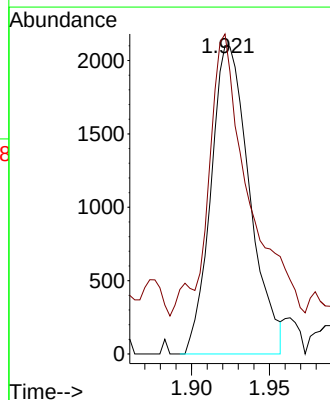
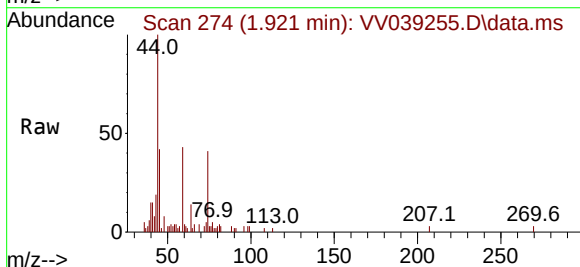
Instrument :
MSVOA_V
ClientSampleId :
MW-4

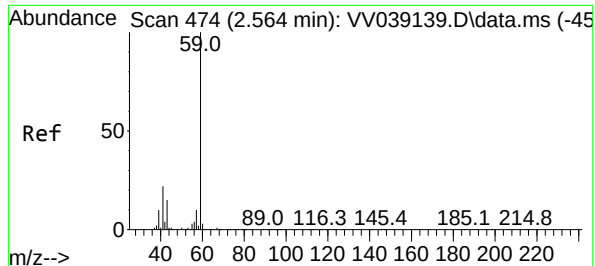
Tgt Ion:168 Resp: 392891
Ion Ratio Lower Upper
168 100
99 59.9 49.6 74.4



#8
Diethyl Ether
Concen: 0.947 ug/l
RT: 1.921 min Scan# 274
Delta R.T. 0.003 min
Lab File: VV039255.D
Acq: 03 Oct 2025 17:19

Tgt Ion: 74 Resp: 3639
Ion Ratio Lower Upper
74 100
45 93.2 49.6 148.8





#11

Tert butyl alcohol

Concen: 7.133 ug/l

RT: 2.577 min Scan# 41

Delta R.T. 0.013 min

Lab File: VV039255.D

Acq: 03 Oct 2025 17:19

Instrument :

MSVOA_V

ClientSampleId :

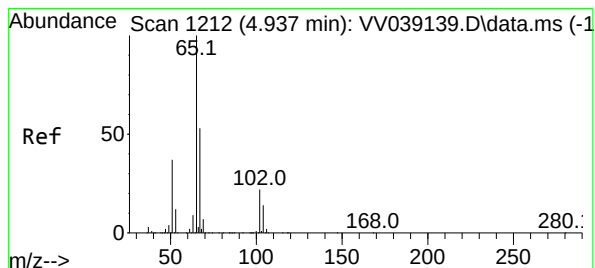
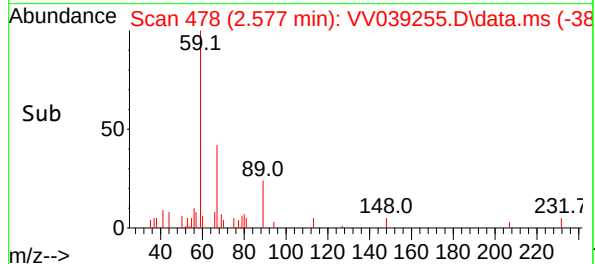
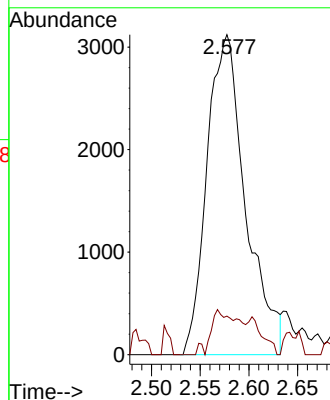
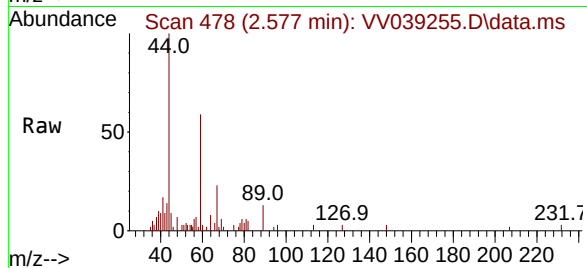
MW-4

Tgt Ion: 59 Resp: 8573

Ion Ratio Lower Upper

59 100

57 10.1 7.8 11.8



#33

1,2-Dichloroethane-d4

Concen: 57.483 ug/l

RT: 4.941 min Scan# 1213

Delta R.T. 0.003 min

Lab File: VV039255.D

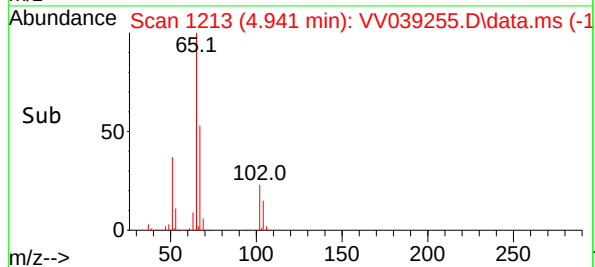
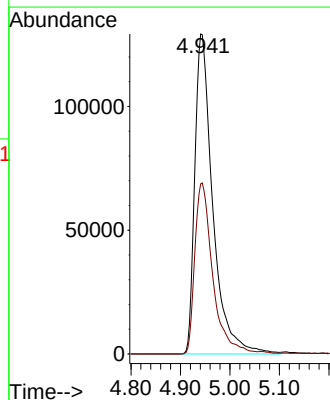
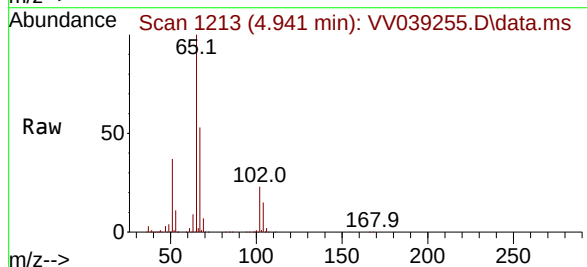
Acq: 03 Oct 2025 17:19

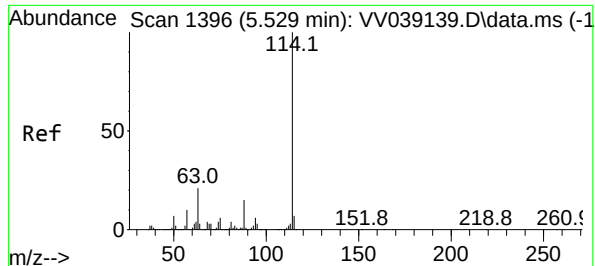
Tgt Ion: 65 Resp: 326864

Ion Ratio Lower Upper

65 100

67 53.3 0.0 107.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.535 min Scan# 11

Delta R.T. 0.006 min

Lab File: VV039255.D

Acq: 03 Oct 2025 17:19

Instrument :

MSVOA_V

ClientSampleId :

MW-4

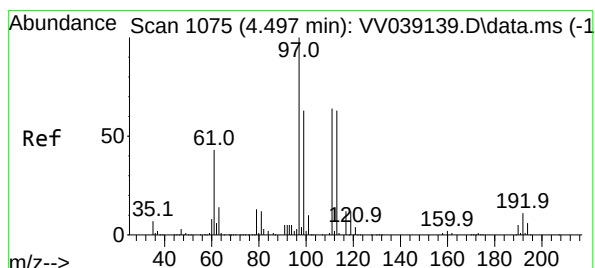
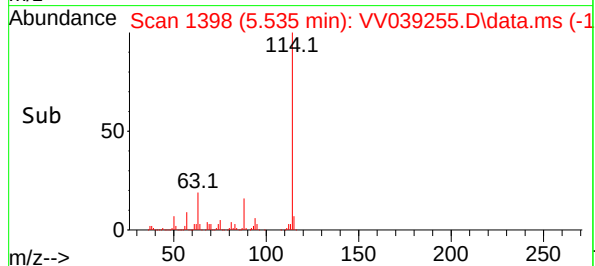
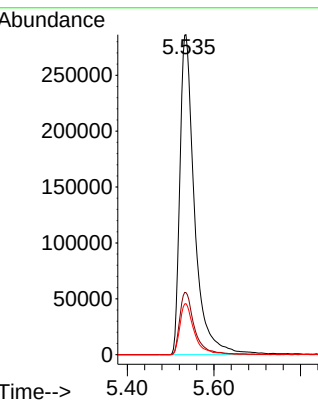
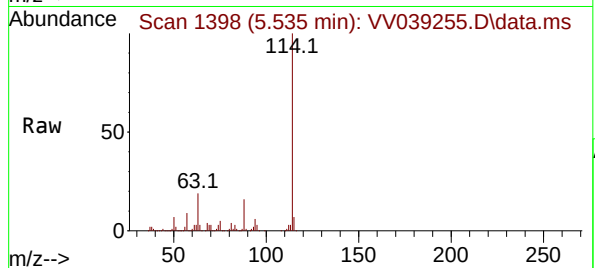
Tgt Ion:114 Resp: 674176

Ion Ratio Lower Upper

114 100

63 19.4 0.0 42.6

88 16.0 0.0 30.8



#35

Dibromofluoromethane

Concen: 57.387 ug/l

RT: 4.503 min Scan# 1077

Delta R.T. 0.006 min

Lab File: VV039255.D

Acq: 03 Oct 2025 17:19

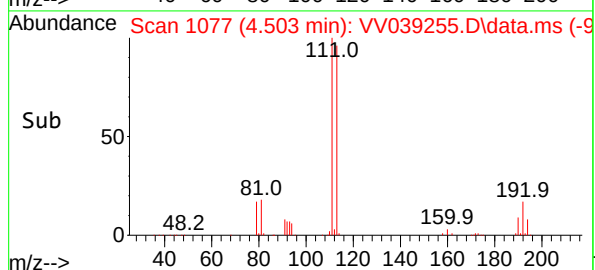
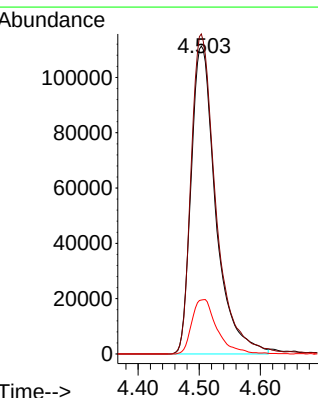
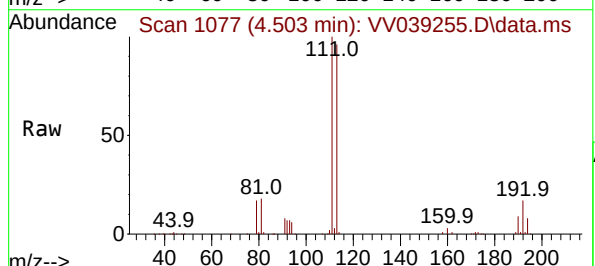
Tgt Ion:113 Resp: 311029

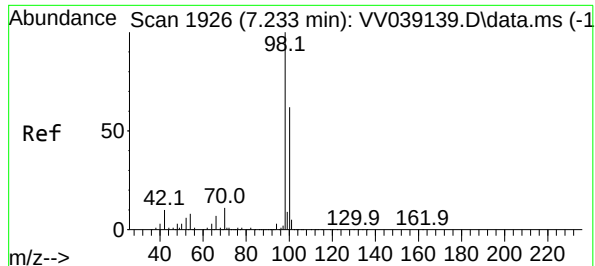
Ion Ratio Lower Upper

113 100

111 104.6 82.4 123.6

192 18.0 13.8 20.8





#50

Toluene-d8

Concen: 45.592 ug/l

RT: 7.240 min Scan# 1926

Delta R.T. 0.006 min

Lab File: VV039255.D

Acq: 03 Oct 2025 17:19

Instrument :

MSVOA_V

ClientSampleId :

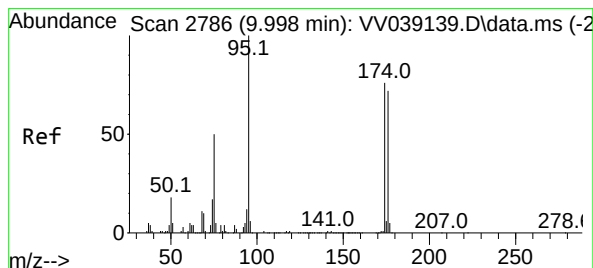
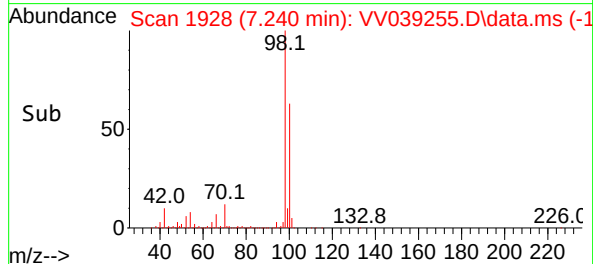
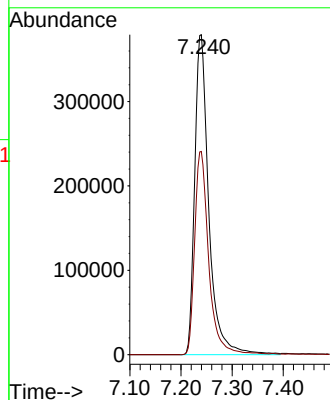
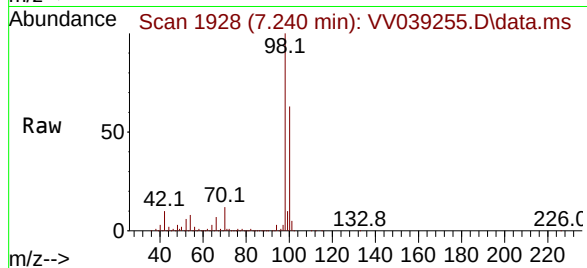
MW-4

Tgt Ion: 98 Resp: 725743

Ion Ratio Lower Upper

98 100

100 63.5 52.2 78.2



#62

4-Bromofluorobenzene

Concen: 45.140 ug/l

RT: 10.002 min Scan# 2787

Delta R.T. 0.003 min

Lab File: VV039255.D

Acq: 03 Oct 2025 17:19

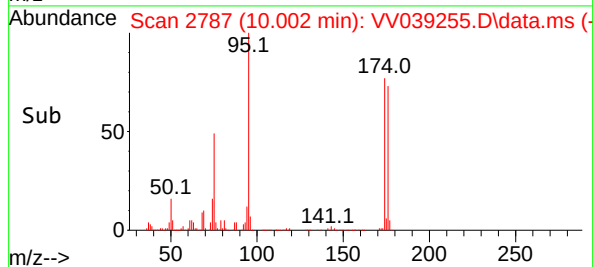
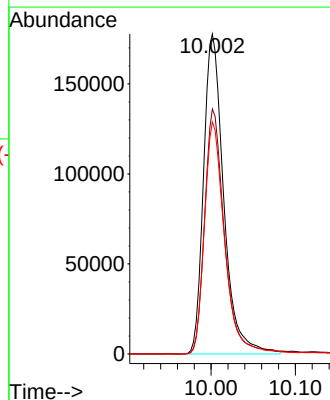
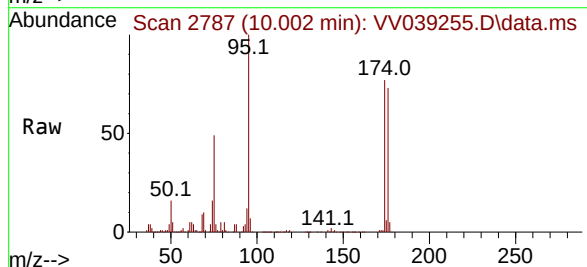
Tgt Ion: 95 Resp: 295807

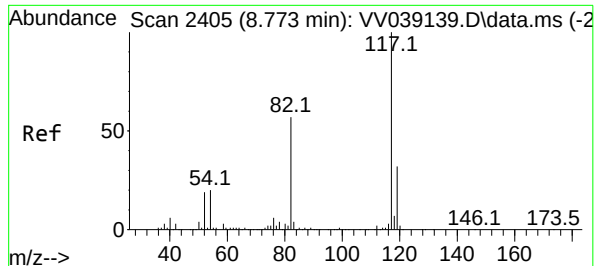
Ion Ratio Lower Upper

95 100

174 76.1 0.0 150.4

176 72.8 0.0 144.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 8.776 min Scan# 2405

Delta R.T. 0.003 min

Lab File: VV039255.D

Acq: 03 Oct 2025 17:19

Instrument :

MSVOA_V

ClientSampleId :

MW-4

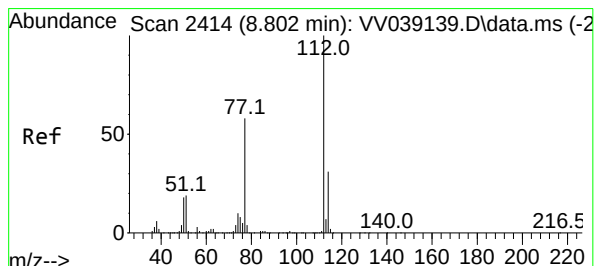
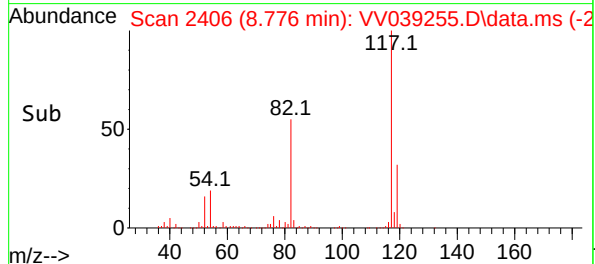
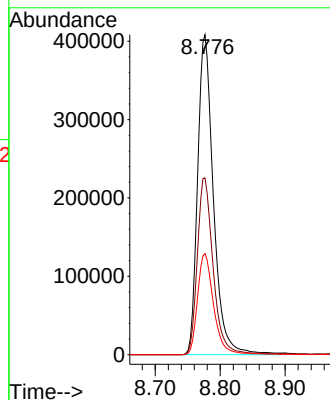
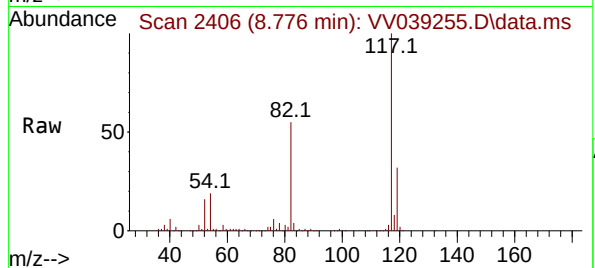
Tgt Ion:117 Resp: 694020

Ion Ratio Lower Upper

117 100

82 55.2 45.4 68.2

119 31.6 25.6 38.4



#65

Chlorobenzene

Concen: 0.708 ug/l

RT: 8.815 min Scan# 2418

Delta R.T. 0.013 min

Lab File: VV039255.D

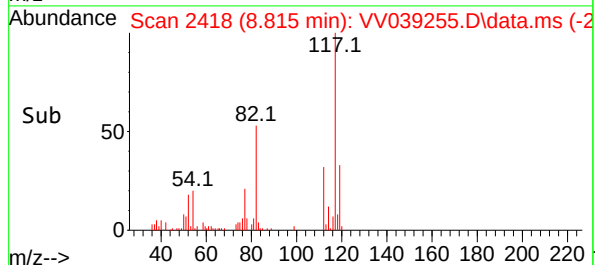
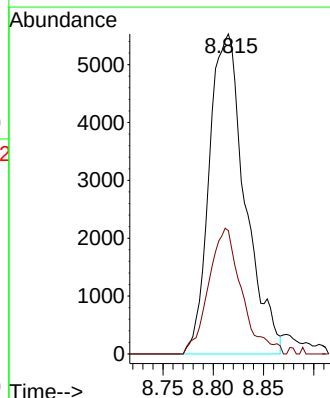
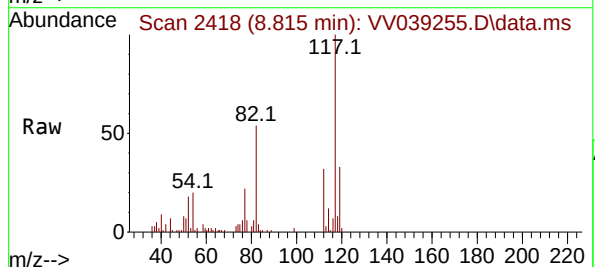
Acq: 03 Oct 2025 17:19

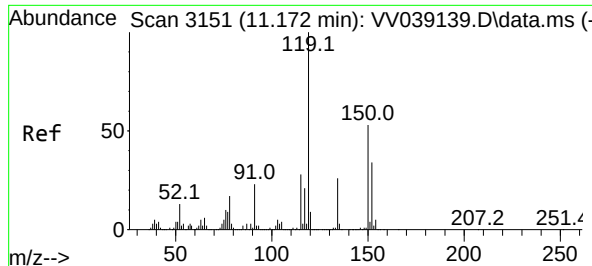
Tgt Ion:112 Resp: 13694

Ion Ratio Lower Upper

112 100

114 38.6 24.6 37.0#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.172 min Scan# 31

Delta R.T. -0.000 min

Lab File: VV039255.D

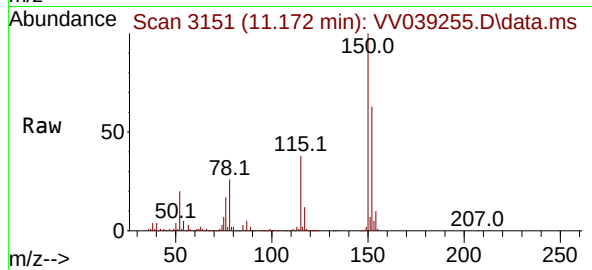
Acq: 03 Oct 2025 17:19

Instrument :

MSVOA_V

ClientSampleId :

MW-4



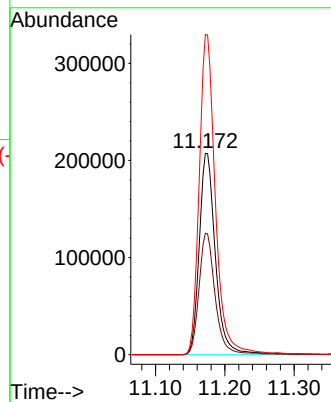
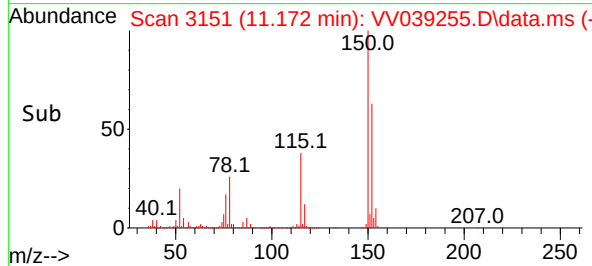
Tgt Ion:152 Resp: 336486

Ion Ratio Lower Upper

152 100

115 60.1 44.8 134.4

150 158.8 0.0 353.8



Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	09/29/25
Project:	Ansonia Landfill 2025	Date Received:	09/30/25
Client Sample ID:	TRIP-BLANK	SDG No.:	Q3254
Lab Sample ID:	Q3254-09	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039251.D	1	10/03/25 15:49	VV100325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	1.00	U	0.26	1.00	ug/L
75-00-3	Chloroethane	1.00	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.33	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.23	1.00	ug/L
107-13-1	Acrylonitrile	5.00	U	0.83	5.00	ug/L
67-64-1	Acetone	5.00	U	1.50	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.21	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.28	1.00	ug/L
108-05-4	Vinyl Acetate	5.00	U	0.66	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.19	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.22	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.20	1.00	ug/L
71-43-2	Benzene	1.00	U	0.15	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.20	1.00	ug/L
74-95-3	Dibromomethane	1.00	U	0.25	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.68	5.00	ug/L
108-88-3	Toluene	1.00	U	0.14	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.16	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.15	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.12	1.00	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	1.00	U	0.19	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.13	1.00	ug/L

Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	09/29/25
Project:	Ansonia Landfill 2025	Date Received:	09/30/25
Client Sample ID:	TRIP-BLANK	SDG No.:	Q3254
Lab Sample ID:	Q3254-09	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039251.D	1	10/03/25 15:49	VV100325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1330-20-7	Total Xylenes	3.00	U	0.36	3.00	ug/L
100-42-5	Styrene	1.00	U	0.15	1.00	ug/L
75-25-2	Bromoform	1.00	UQ	0.19	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.26	1.00	ug/L
96-18-4	1,2,3-Trichloropropane	1.00	U	0.35	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.53	1.00	ug/L
74-88-4	Methyl Iodide	5.00	U	0.83	5.00	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	5.00	U	0.84	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	58.2		74 - 125	116%	SPK: 50
1868-53-7	Dibromofluoromethane	58.9		75 - 124	118%	SPK: 50
2037-26-5	Toluene-d8	45.8		86 - 113	92%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.6		77 - 121	89%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	330000	4.603			
540-36-3	1,4-Difluorobenzene	558000	5.535			
3114-55-4	Chlorobenzene-d5	580000	8.776			
3855-82-1	1,4-Dichlorobenzene-d4	279000	11.175			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV100325\
Data File : VV039251.D
Acq On : 03 Oct 2025 15:49
Operator : SY/MD
Sample : Q3254-09
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
TRIP-BLANK

Quant Time: Oct 04 01:12:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.603	168	330074	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	558191	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	580452	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.175	152	279370	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.944	65	278062	58.207	ug/l	0.00
Spiked Amount	50.000	Range	81 - 118	Recovery	=	116.420%
35) Dibromofluoromethane	4.503	113	264283	58.894	ug/l	0.00
Spiked Amount	50.000	Range	80 - 119	Recovery	=	117.780%
50) Toluene-d8	7.239	98	603656	45.802	ug/l	0.00
Spiked Amount	50.000	Range	89 - 112	Recovery	=	91.600%
62) 4-Bromofluorobenzene	10.001	95	241901	44.585	ug/l	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	=	89.160%

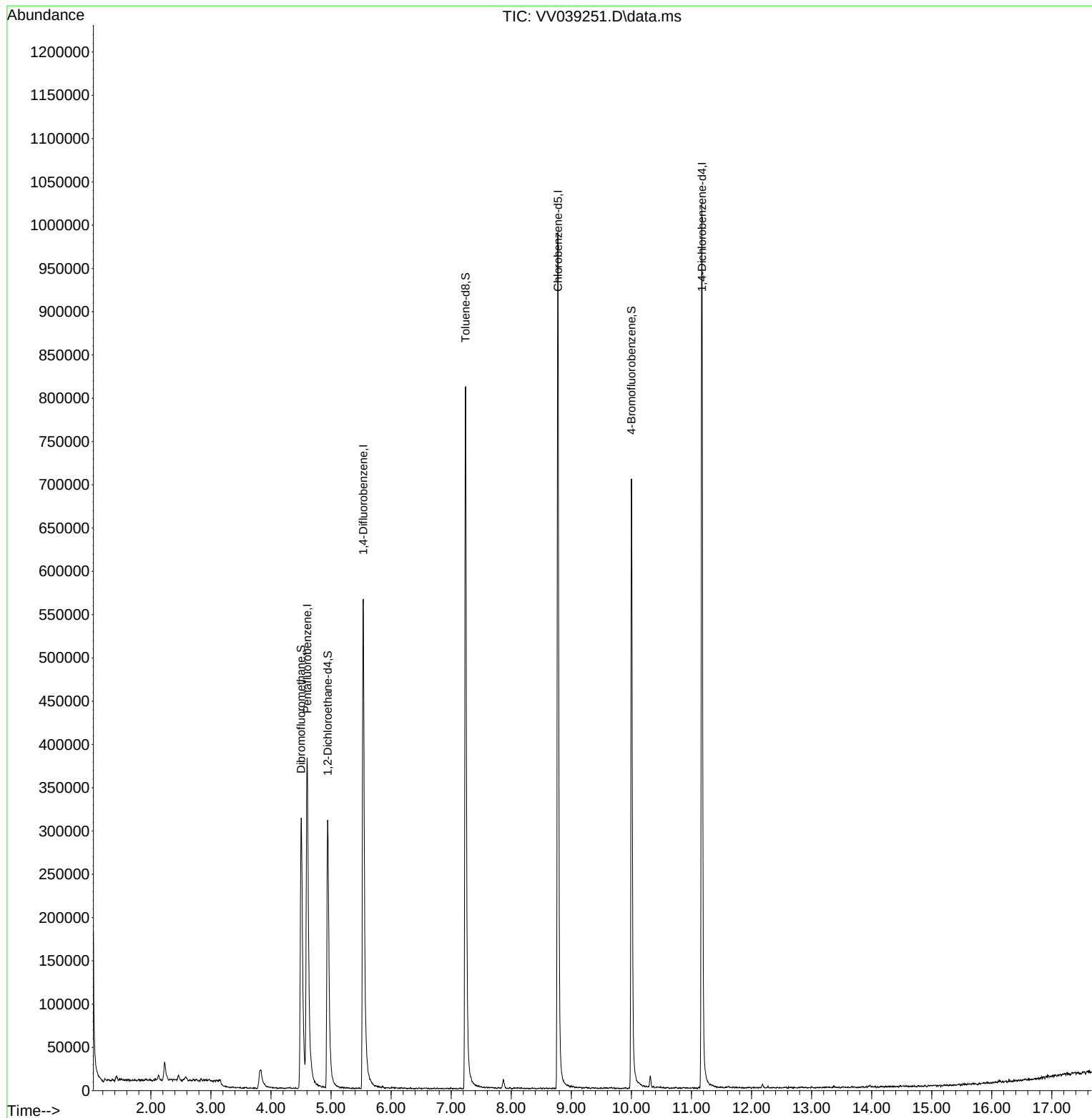
Target Compounds	Qvalue

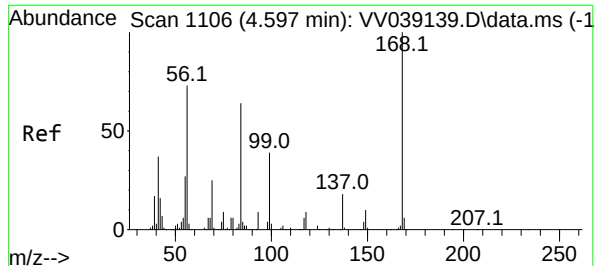
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV100325\
Data File : VV039251.D
Acq On : 03 Oct 2025 15:49
Operator : SY/MD
Sample : Q3254-09
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
TRIP-BLANK

Quant Time: Oct 04 01:12:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

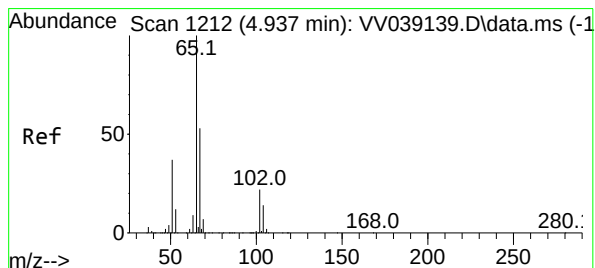
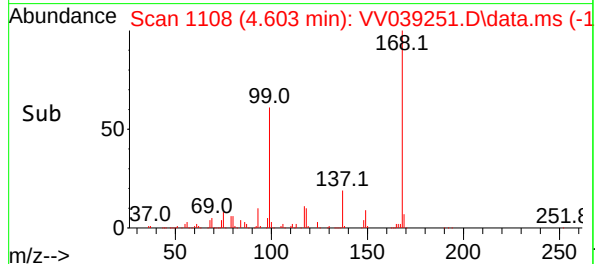
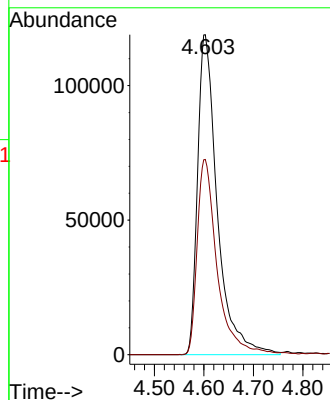
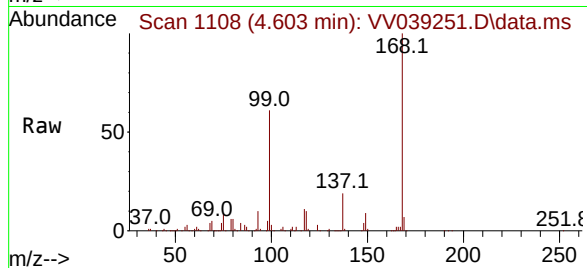




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.603 min Scan# 1108
Delta R.T. 0.006 min
Lab File: VV039251.D
Acq: 03 Oct 2025 15:49

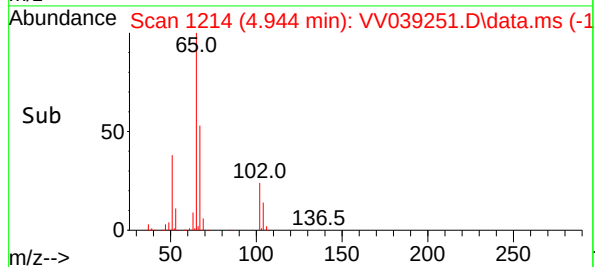
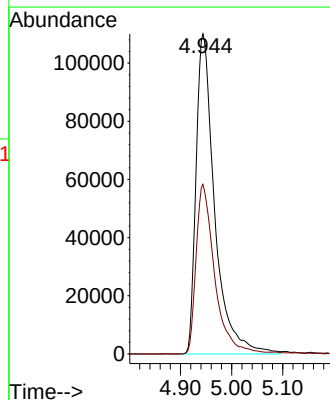
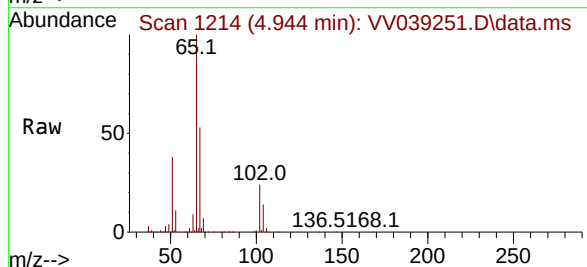
Instrument :
MSVOA_V
ClientSampleId :
TRIP-BLANK

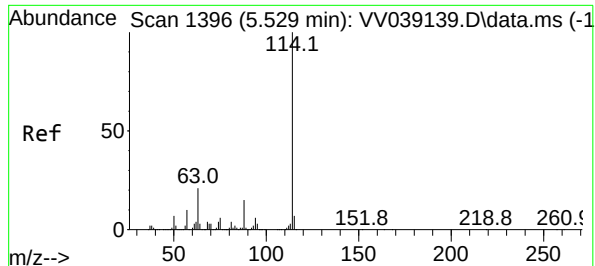
Tgt Ion:168 Resp: 330074
Ion Ratio Lower Upper
168 100
99 60.9 49.6 74.4



#33
1,2-Dichloroethane-d4
Concen: 58.207 ug/l
RT: 4.944 min Scan# 1214
Delta R.T. 0.006 min
Lab File: VV039251.D
Acq: 03 Oct 2025 15:49

Tgt Ion: 65 Resp: 278062
Ion Ratio Lower Upper
65 100
67 52.9 0.0 107.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.535 min Scan# 11

Delta R.T. 0.006 min

Lab File: VV039251.D

Acq: 03 Oct 2025 15:49

Instrument :

MSVOA_V

ClientSampleId :

TRIP-BLANK

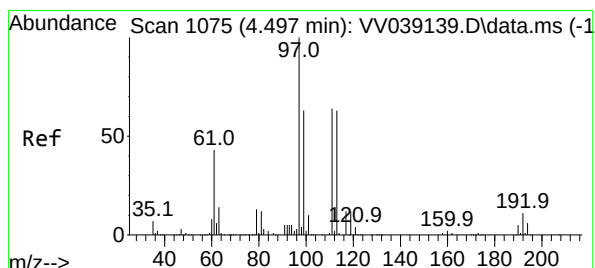
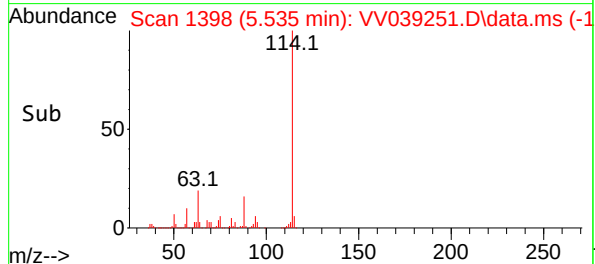
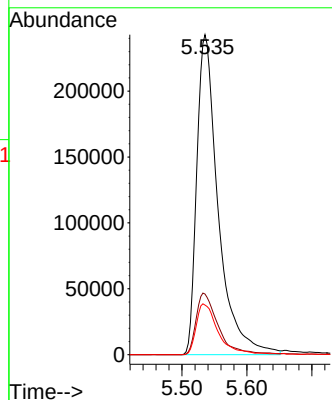
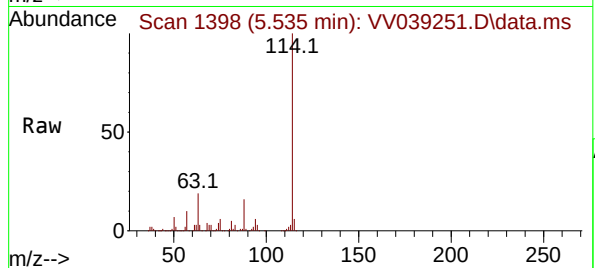
Tgt Ion:114 Resp: 558191

Ion Ratio Lower Upper

114 100

63 18.9 0.0 42.6

88 15.5 0.0 30.8



#35

Dibromofluoromethane

Concen: 58.894 ug/l

RT: 4.503 min Scan# 1077

Delta R.T. 0.006 min

Lab File: VV039251.D

Acq: 03 Oct 2025 15:49

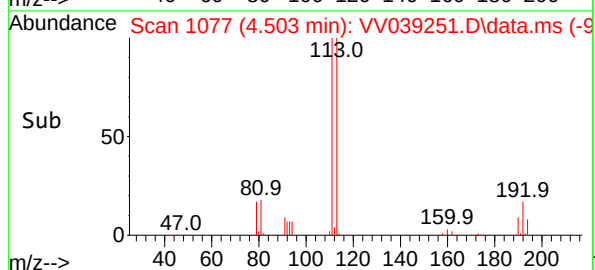
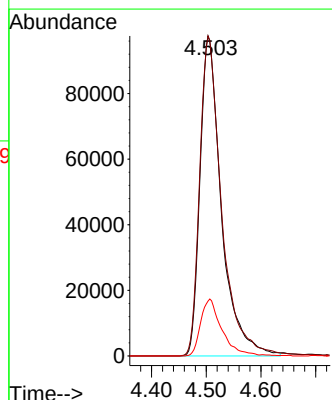
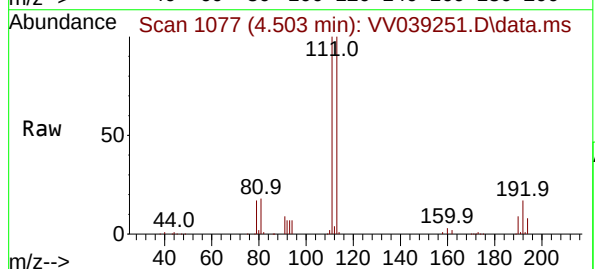
Tgt Ion:113 Resp: 264283

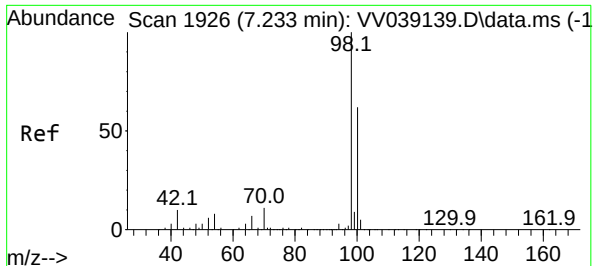
Ion Ratio Lower Upper

113 100

111 103.3 82.4 123.6

192 17.5 13.8 20.8

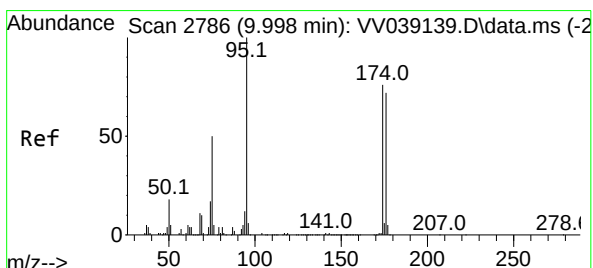
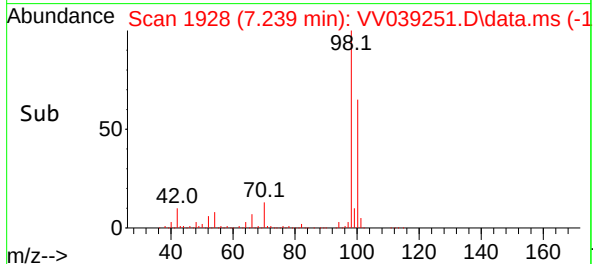
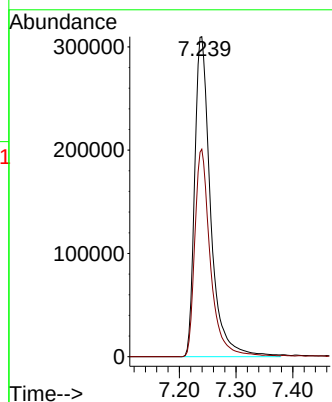
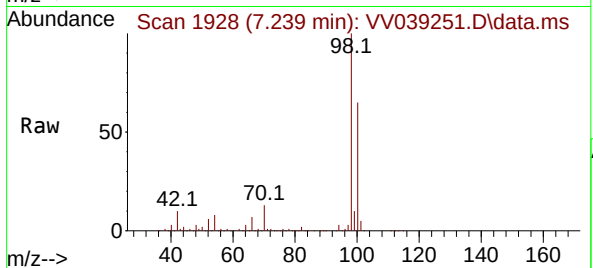




#50
Toluene-d8
Concen: 45.802 ug/l
RT: 7.239 min Scan# 1926
Delta R.T. 0.006 min
Lab File: VV039251.D
Acq: 03 Oct 2025 15:49

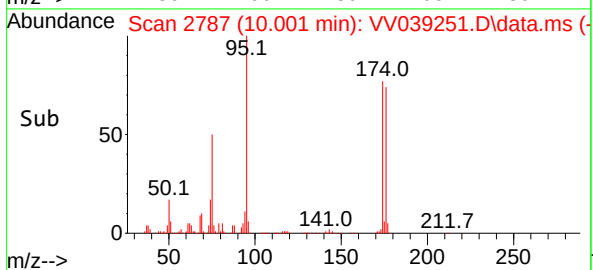
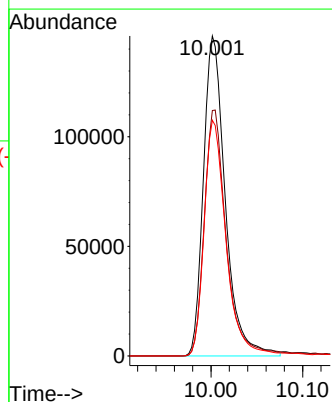
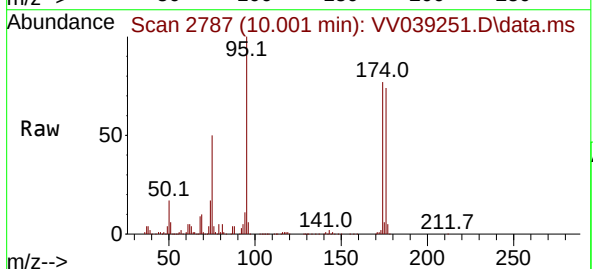
Instrument :
MSVOA_V
ClientSampleId :
TRIP-BLANK

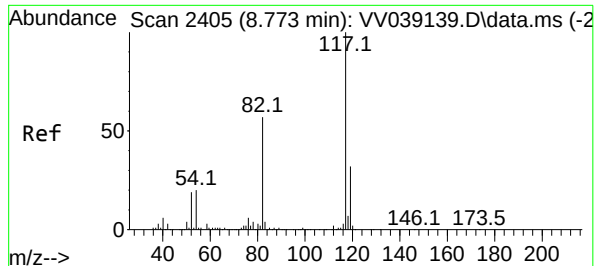
Tgt Ion: 98 Resp: 603656
Ion Ratio Lower Upper
98 100
100 63.7 52.2 78.2



#62
4-Bromofluorobenzene
Concen: 44.585 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039251.D
Acq: 03 Oct 2025 15:49

Tgt Ion: 95 Resp: 241901
Ion Ratio Lower Upper
95 100
174 77.3 0.0 150.4
176 74.6 0.0 144.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 8.776 min Scan# 2405

Delta R.T. 0.003 min

Lab File: VV039251.D

Acq: 03 Oct 2025 15:49

Instrument :

MSVOA_V

ClientSampleId :

TRIP-BLANK

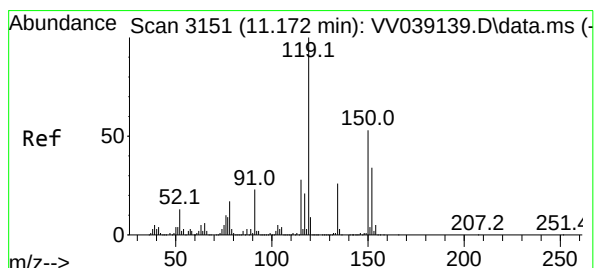
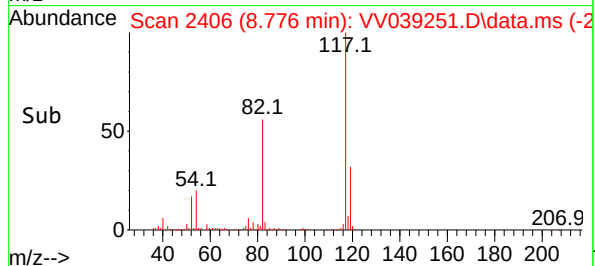
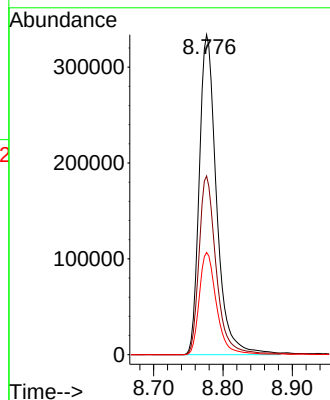
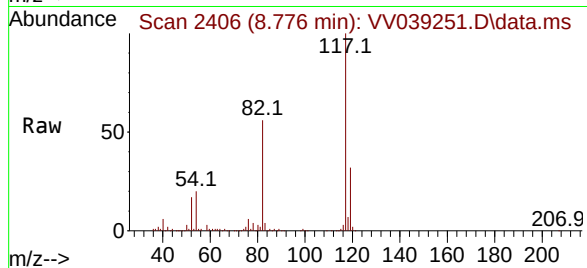
Tgt Ion:117 Resp: 580452

Ion Ratio Lower Upper

117 100

82 55.8 45.4 68.2

119 32.0 25.6 38.4



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.175 min Scan# 3152

Delta R.T. 0.003 min

Lab File: VV039251.D

Acq: 03 Oct 2025 15:49

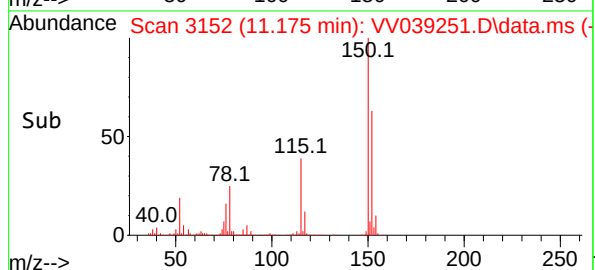
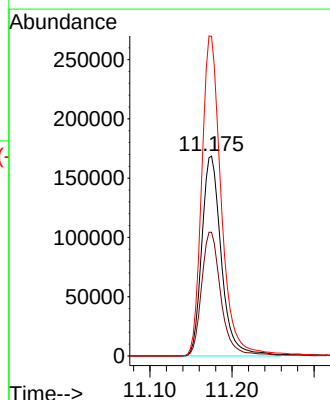
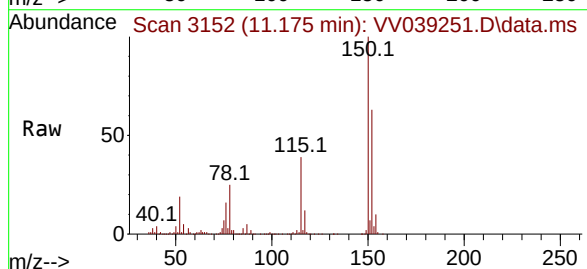
Tgt Ion:152 Resp: 279370

Ion Ratio Lower Upper

152 100

115 62.0 44.8 134.4

150 160.9 0.0 353.8





CALIBRATION SUMMARY

- 1
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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: LOCK01
 Lab Code: ACE SDG No.: Q3254
 Instrument ID: MSVOA_V Calibration Date(s): 09/22/2025 09/22/2025
 Heated Purge: (Y/N) N Calibration Time(s): 12:26 16:35
 GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID:		RRF010 = VV039137.D		RRF020 = VV039138.D		RRF050 = VV039139.D			
		RRF100 = VV039140.D		RRF005 = VV039142.D		RRF001 = VV039143.D			
COMPOUND	RRF010	RRF020	RRF050	RRF100	RRF005	RRF001	RRF	% RSD	
Vinyl Chloride	1.007	0.856	0.836	0.801	0.932	1.026	0.910	10.3	
Chloroethane	0.662	0.568	0.533	0.500	0.606	0.915	0.631	23.8	
Trichlorofluoromethane	1.394	1.253	1.193	1.151	1.365	1.546	1.317	11.2	
1,1-Dichloroethene	0.804	0.721	0.674	0.663	0.789	0.873	0.754	10.9	
Acrylonitrile	0.507	0.462	0.436	0.427	0.522	0.587	0.490	12.4	
Acetone	0.537	0.458	0.449	0.414	0.569	0.712	0.523	20.8	
Carbon Disulfide	2.453	2.181	2.081	1.986	2.462	2.670	2.306	11.4	
Methylene Chloride	0.930	0.848	0.779	0.742	1.113	1.987	1.066	44	
Vinyl Acetate	2.393	2.241	2.204	2.128	2.313	2.243	2.254	4	
2-Butanone	0.604	0.584	0.586	0.580	0.570	0.554	0.579	2.9	
Carbon Tetrachloride	0.742	0.710	0.703	0.675	0.736	0.890	0.743	10.2	
cis-1,2-Dichloroethene	0.908	0.842	0.868	0.860	0.832	1.001	0.885	7.1	
Bromochloromethane	0.836	0.753	0.679	0.637	0.525	0.743	0.696	15.5	
Chloroform	1.752	1.570	1.490	1.433	1.746	1.880	1.645	10.6	
1,1,1-Trichloroethane	1.562	1.321	1.298	1.263	1.513	1.590	1.424	10.3	
Benzene	2.077	1.978	1.990	1.931	1.963	1.936	1.979	2.7	
1,2-Dichloropropane	0.509	0.519	0.502	0.486	0.471	0.465	0.492	4.4	
Dibromomethane	0.392	0.367	0.368	0.354	0.381	0.396	0.376	4.4	
Bromodichloromethane	0.832	0.764	0.753	0.725	0.767	0.829	0.778	5.5	
4-Methyl-2-Pentanone	0.715	0.736	0.732	0.714	0.613	0.459	0.661	16.5	
Toluene	1.211	1.199	1.229	1.214	1.130	0.901	1.147	10.9	
t-1,3-Dichloropropene	0.701	0.696	0.728	0.753	0.645	0.548	0.678	10.8	
cis-1,3-Dichloropropene	0.803	0.777	0.811	0.803	0.704	0.595	0.749	11.4	
2-Hexanone	0.505	0.534	0.546	0.533	0.429	0.231	0.463	26.2	
Dibromochloromethane	0.605	0.570	0.567	0.558	0.598	0.620	0.586	4.2	
1,2-Dibromoethane	0.556	0.538	0.529	0.514	0.535	0.484	0.526	4.7	
Tetrachloroethene	0.435	0.412	0.412	0.407	0.431	0.415	0.419	2.7	
Chlorobenzene	1.403	1.368	1.383	1.358	1.417	1.428	1.393	2	
1,1,1,2-Tetrachloroethane	0.520	0.488	0.488	0.477	0.504	0.543	0.503	4.8	
Ethyl Benzene	2.028	2.143	2.382	2.418	1.953	1.725	2.108	12.5	

* Compounds with required minimum RRF and maximum %RSD values.
 All other compounds must meet a minimum RRF of 0.010.
 RRF of 1,4-Dioxane = Value should be divide by 1000.



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: LOCK01
 Lab Code: ACE SDG No.: Q3254
 Instrument ID: MSVOA_V Calibration Date(s): 09/22/2025 09/22/2025
 Heated Purge: (Y/N) N Calibration Time(s): 12:26 16:35
 GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID:		RRF010 = VV039137.D		RRF020 = VV039138.D		RRF050 = VV039139.D			
		RRF100 = VV039140.D		RRF005 = VV039142.D		RRF001 = VV039143.D			
COMPOUND	RRF010	RRF020	RRF050	RRF100	RRF005	RRF001	RRF	% RSD	
m/p-Xylenes	0.820	0.882	0.949	0.938	0.713	0.580	0.814	17.7	
o-Xylene	0.703	0.742	0.846	0.880	0.635	0.518	0.720	18.7	
Styrene	1.239	1.381	1.553	1.537	1.038	0.828	1.263	22.8	
Bromoform	0.396	0.384	0.396	0.400	0.385	0.397	0.393	1.7	
1,1,2,2-Tetrachloroethane	1.600	1.461	1.425	1.389	1.684	1.975	1.589	13.8	
1,2,3-Trichloropropane	1.136	1.048	1.049	1.023	1.201	1.375	1.138	11.7	
1,4-Dichlorobenzene	2.070	1.951	1.934	1.919	2.139	2.522	2.089	11	
1,2-Dichlorobenzene	1.751	1.652	1.738	1.802	1.797	1.935	1.779	5.3	
1,2-Dibromo-3-Chloropropane	0.299	0.283	0.285	0.302	0.333	0.476	0.330	22.4	
1,2-Dichloroethane-d4	0.773	0.663	0.646	0.618	0.919		0.724	17.1	
Dibromofluoromethane	0.435	0.382	0.377	0.360	0.454		0.402	10.1	
Toluene-d8	1.166	1.092	1.136	1.097	1.411		1.181	11.2	
4-Bromofluorobenzene	0.481	0.464	0.507	0.501	0.477		0.486	3.6	
Methyl Iodide	0.772	0.742	0.786	0.793	0.638		0.746	8.5	
trans-1,4-Dichloro-2-butene	0.478	0.451	0.495	0.521	0.427		0.474	7.8	

* Compounds with required minimum RRF and maximum %RSD values.
 All other compounds must meet a minimum RRF of 0.010.
 RRF of 1,4-Dioxane = Value should be divide by 1000.

Method Path : Z:\voasrv\HPCHEM1\MSVOA_V\Method\
 Method File : 82V092225W.M
 Title : SW846 8260
 Last Update : Wed Sep 24 08:08:08 2025
 Response Via : Initial Calibration

Calibration Files

1 =VV039143.D 5 =VV039142.D 10 =VV039137.D 20 =VV039138.D 50 =VV039139.D 100 =VV039140.D

	Compound	1	5	10	20	50	100	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.934	0.772	0.848	0.757	0.740	0.699	0.791	10.78
3) P	Chloromethane	0.946	0.889	0.949	0.814	0.770	0.729	0.850	10.90
4) C	Vinyl Chloride	1.026	0.932	1.007	0.856	0.836	0.801	0.910	10.27#
5) T	Bromomethane		0.655	0.631	0.548	0.508	0.524	0.573	11.50
6) T	Chloroethane	0.915	0.606	0.662	0.568	0.533	0.500	0.631	23.83
7) T	Trichlorofluor...	1.546	1.365	1.394	1.253	1.193	1.151	1.317	11.15
8) T	Diethyl Ether	0.572	0.513	0.505	0.461	0.447	0.435	0.489	10.50
9) T	1,1,2-Trichlor...	0.939	0.804	0.839	0.732	0.702	0.686	0.784	12.28
10) T	Methyl Iodide		0.638	0.772	0.742	0.786	0.793	0.746	8.50
11) T	Tert butyl alc...		0.166	0.169	0.157	0.137	0.136	0.153	10.26
12) CM	1,1-Dichloroet...	0.873	0.789	0.804	0.721	0.674	0.663	0.754	10.87#
13) T	Acrolein		0.025	0.027	0.027	0.026	0.027	0.027	4.01
14) T	Allyl chloride	1.523	1.434	1.388	1.283	1.243	1.208	1.347	9.06
15) T	Acrylonitrile	0.587	0.522	0.507	0.462	0.436	0.427	0.490	12.38
16) T	Acetone	0.712	0.569	0.537	0.458	0.449	0.414	0.523	20.84
17) T	Carbon Disulfide	2.670	2.462	2.453	2.181	2.081	1.986	2.306	11.43
18) T	Methyl Acetate	1.198	1.097	1.146	1.036	0.983	0.973	1.072	8.46
19) T	Methyl tert-bu...	2.591	2.556	2.547	2.285	2.233	2.202	2.402	7.50
20) T	Methylene Chlo...	1.987	1.113	0.930	0.848	0.779	0.742	1.066	44.05
21) T	trans-1,2-Dich...	0.959	0.835	0.846	0.755	0.724	0.696	0.803	12.11
22) T	Diisopropyl ether	2.659	2.560	2.757	2.530	2.520	2.433	2.576	4.44
23) T	Vinyl Acetate	2.243	2.313	2.393	2.241	2.204	2.128	2.254	4.04
24) P	1,1-Dichloroet...	1.942	1.659	1.669	1.466	1.388	1.329	1.576	14.42
25) T	2-Butanone	0.554	0.570	0.604	0.584	0.586	0.580	0.579	2.90
26) T	2,2-Dichloropr...	1.906	1.393	1.364	1.275	1.239	1.204	1.397	18.57
27) T	cis-1,2-Dichlo...	1.001	0.832	0.908	0.842	0.868	0.860	0.885	7.06
28) T	Bromochloromet...	0.743	0.525	0.836	0.753	0.679	0.637	0.696	15.49
29) T	Tetrahydrofuran	0.335	0.350	0.376	0.372	0.369	0.374	0.363	4.57
30) C	Chloroform	1.880	1.746	1.752	1.570	1.490	1.433	1.645	10.60#
31) T	Cyclohexane		1.407	1.325	1.222	1.245	1.254	1.291	5.85
32) T	1,1,1-Trichlor...	1.590	1.513	1.562	1.321	1.298	1.263	1.424	10.26
33) S	1,2-Dichloroet...		0.919	0.773	0.663	0.646	0.618	0.724	17.13
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...		0.454	0.435	0.382	0.377	0.360	0.402	10.10
36) T	1,1-Dichloropr...	0.650	0.536	0.624	0.604	0.620	0.612	0.608	6.33
37) T	Ethyl Acetate	0.825	0.722	0.715	0.740	0.714	0.710	0.737	5.96
38) T	Carbon Tetrach...	0.890	0.736	0.742	0.710	0.703	0.675	0.743	10.25
39) T	Methylcyclohexane	0.622	0.680	0.701	0.720	0.823	0.857	0.734	12.15
40) TM	Benzene	1.936	1.963	2.077	1.978	1.990	1.931	1.979	2.69
41) T	Methacrylonitrile	0.185	0.215	0.273	0.292	0.330	0.342	0.273	22.92
42) TM	1,2-Dichloroet...	0.740	0.693	0.725	0.694	0.666	0.643	0.693	5.20
43) T	Isopropyl Acetate	0.869	0.933	1.032	1.029	1.069	1.100	1.005	8.71
44) TM	Trichloroethene	0.435	0.460	0.471	0.456	0.463	0.454	0.457	2.64
45) C	1,2-Dichloropr...	0.465	0.471	0.509	0.519	0.502	0.486	0.492	4.40#
46) T	Dibromomethane	0.396	0.381	0.392	0.367	0.368	0.354	0.376	4.40
47) T	Bromodichlorom...	0.829	0.767	0.832	0.764	0.753	0.725	0.778	5.54
48) T	Methyl methacr...	0.491	0.356	0.409	0.449	0.504	0.526	0.456	14.15
49) T	1,4-Dioxane	0.009	0.005	0.007	0.007	0.007	0.008	0.007	17.72
50) S	Toluene-d8		1.411	1.166	1.092	1.136	1.097	1.181	11.21
51) T	4-Methyl-2-Pen...	0.459	0.613	0.715	0.736	0.732	0.714	0.661	16.48
52) CM	Toluene	0.901	1.130	1.211	1.199	1.229	1.214	1.147	10.93#
53) T	t-1,3-Dichloro...	0.548	0.645	0.701	0.696	0.728	0.753	0.678	10.83
54) T	cis-1,3-Dichlo...	0.595	0.704	0.803	0.777	0.811	0.803	0.749	11.37
55) T	1,1,2-Trichlor...	0.553	0.524	0.534	0.502	0.494	0.480	0.514	5.31
56) T	Ethyl methacry...	0.507	0.510	0.569	0.603	0.716	0.761	0.611	17.43

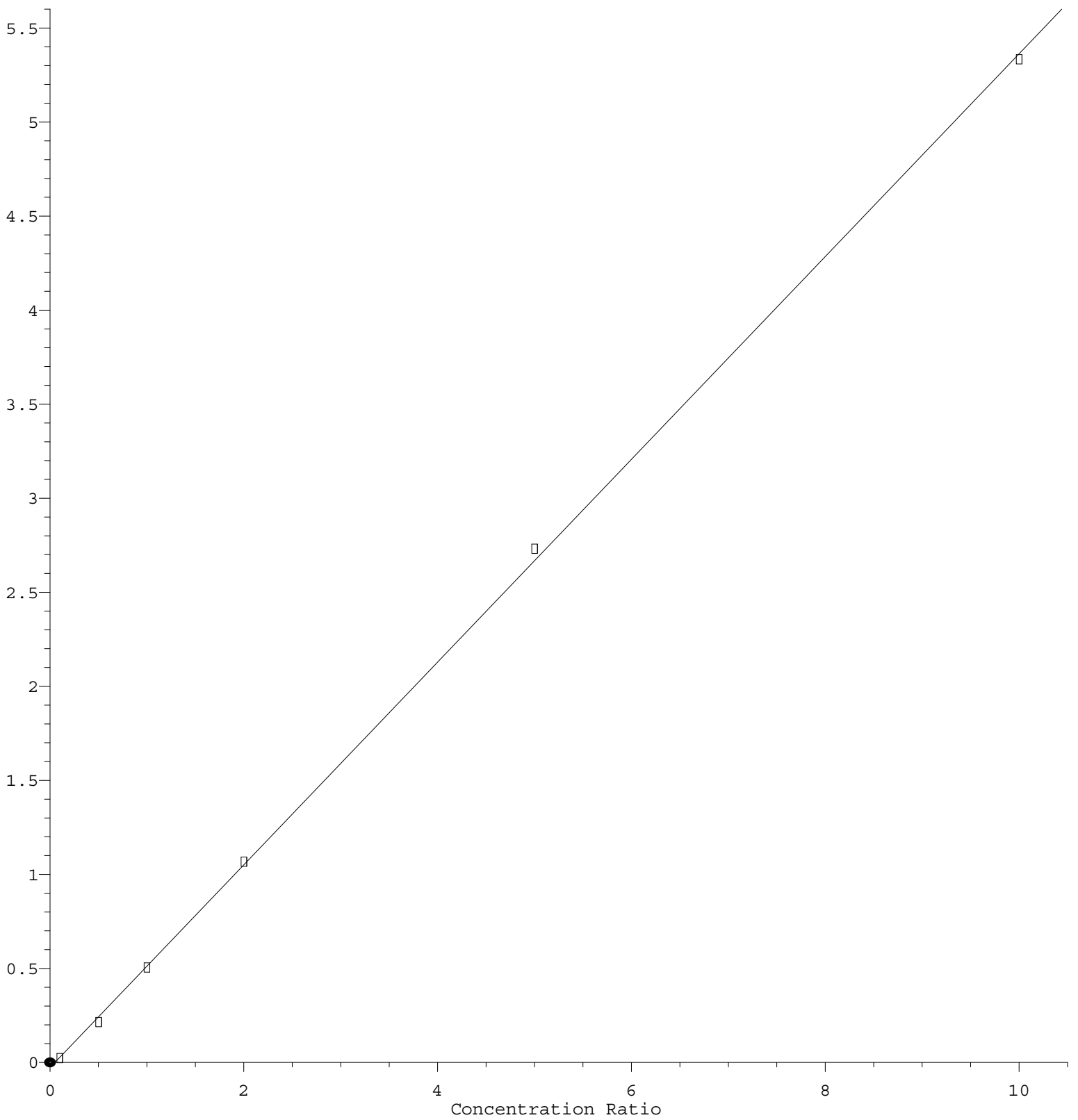
Method Path : Z:\voasrv\HPCHEM1\MSVOA_V\Method\
 Method File : 82V092225W.M

57)	T	1,3-Dichloropr...	0.797	0.764	0.861	0.827	0.820	0.802	0.812	4.02
58)	T	2-Chloroethyl ...	0.136	0.196	0.264	0.304	0.353	0.351	0.267	32.62
59)	T	2-Hexanone	0.231	0.429	0.505	0.534	0.546	0.533	0.463	26.18
60)	T	Dibromochlorom...	0.620	0.598	0.605	0.570	0.567	0.558	0.586	4.20
61)	T	1,2-Dibromoethane	0.484	0.535	0.556	0.538	0.529	0.514	0.526	4.70
62)	S	4-Bromofluorob...	0.477	0.481	0.464	0.507	0.501	0.486		3.62
63)	I	Chlorobenzene-d5	-----ISTD-----							
64)	T	Tetrachloroethene	0.415	0.431	0.435	0.412	0.412	0.407	0.419	2.74
65)	PM	Chlorobenzene	1.428	1.417	1.403	1.368	1.383	1.358	1.393	1.99
66)	T	1,1,1,2-Tetrac...	0.543	0.504	0.520	0.488	0.488	0.477	0.503	4.84
67)	C	Ethyl Benzene	1.725	1.953	2.028	2.143	2.382	2.418	2.108	12.53#
68)	T	m/p-Xylenes	0.580	0.713	0.820	0.882	0.949	0.938	0.814	17.68
69)	T	o-Xylene	0.518	0.635	0.703	0.742	0.846	0.880	0.720	18.67
70)	T	Styrene	0.828	1.038	1.239	1.381	1.553	1.537	1.263	22.78
71)	P	Bromoform	0.397	0.385	0.396	0.384	0.396	0.400	0.393	1.68
72)	I	1,4-Dichlorobenzen...	-----ISTD-----							
73)	T	Isopropylbenzene	3.226	3.296	3.564	3.638	3.939	4.096	3.627	9.49
74)	T	N-amyl acetate	1.031	1.279	1.425	1.506	1.673	1.764	1.447	18.47
75)	P	1,1,2,2-Tetrac...	1.975	1.684	1.600	1.461	1.425	1.389	1.589	13.83
76)	T	1,2,3-Trichlor...	1.375	1.201	1.136	1.048	1.049	1.023	1.138	11.73
77)	T	Bromobenzene	0.978	0.927	0.948	0.919	0.925	0.949	0.941	2.34
78)	T	n-propylbenzene	3.873	3.967	4.330	4.442	4.899	4.986	4.416	10.44
79)	T	2-Chlorotoluene	2.114	2.585	2.752	2.688	2.833	2.883	2.643	10.59
80)	T	1,3,5-Trimethy...	2.462	2.697	2.924	3.141	3.387	3.475	3.014	13.12
81)	T	trans-1,4-Dich...	0.427	0.478	0.451	0.495	0.521	0.474		7.77
82)	T	4-Chlorotoluene	2.381	2.877	3.160	3.216	3.338	3.413	3.064	12.48
83)	T	tert-Butylbenzene	2.875	2.757	2.886	2.881	3.222	3.413	3.006	8.43
84)	T	1,2,4-Trimethy...	2.332	2.542	2.767	3.100	3.378	3.440	2.926	15.47
85)	T	sec-Butylbenzene	3.605	3.608	3.823	3.969	4.364	4.550	3.987	9.88
86)	T	p-Isopropyltol...	2.874	2.994	3.237	3.351	3.682	3.772	3.318	10.85
87)	T	1,3-Dichlorobe...	1.975	1.943	1.931	1.836	1.857	1.882	1.904	2.83
88)	T	1,4-Dichlorobe...	2.522	2.139	2.070	1.951	1.934	1.919	2.089	10.97
89)	T	n-Butylbenzene	2.646	2.816	3.034	3.141	3.613	3.763	3.169	13.88
90)	T	Hexachloroethane	1.044	0.841	0.808	0.740	0.728	0.742	0.817	14.63
91)	T	1,2-Dichlorobe...	1.935	1.797	1.751	1.652	1.738	1.802	1.779	5.26
92)	T	1,2-Dibromo-3-...	0.476	0.333	0.299	0.283	0.285	0.302	0.330	22.39
93)	T	1,2,4-Trichlor...	1.028	0.935	0.928	0.963	1.076	1.189	1.020	9.87
94)	T	Hexachlorobuta...	0.683	0.530	0.512	0.474	0.480	0.501	0.530	14.65
95)	T	Naphthalene	3.054	2.665	2.888	3.114	3.814	4.244	3.296	18.32
96)	T	1,2,3-Trichlor...	1.113	0.901	0.974	0.973	1.107	1.191	1.043	10.58

(#) = Out of Range

2-Hexanone

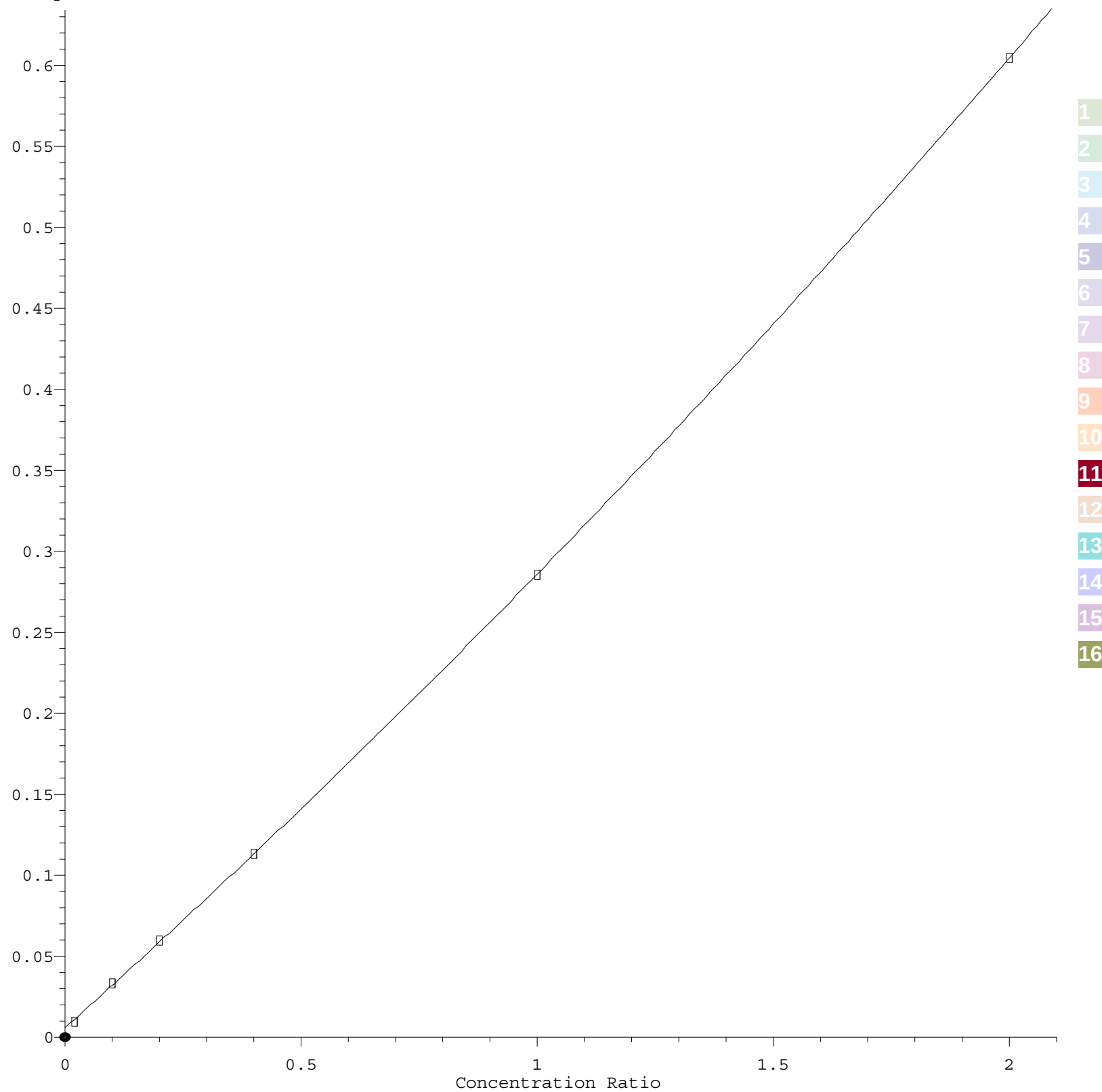
Response Ratio



- 1
- 2
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- 15
- 16

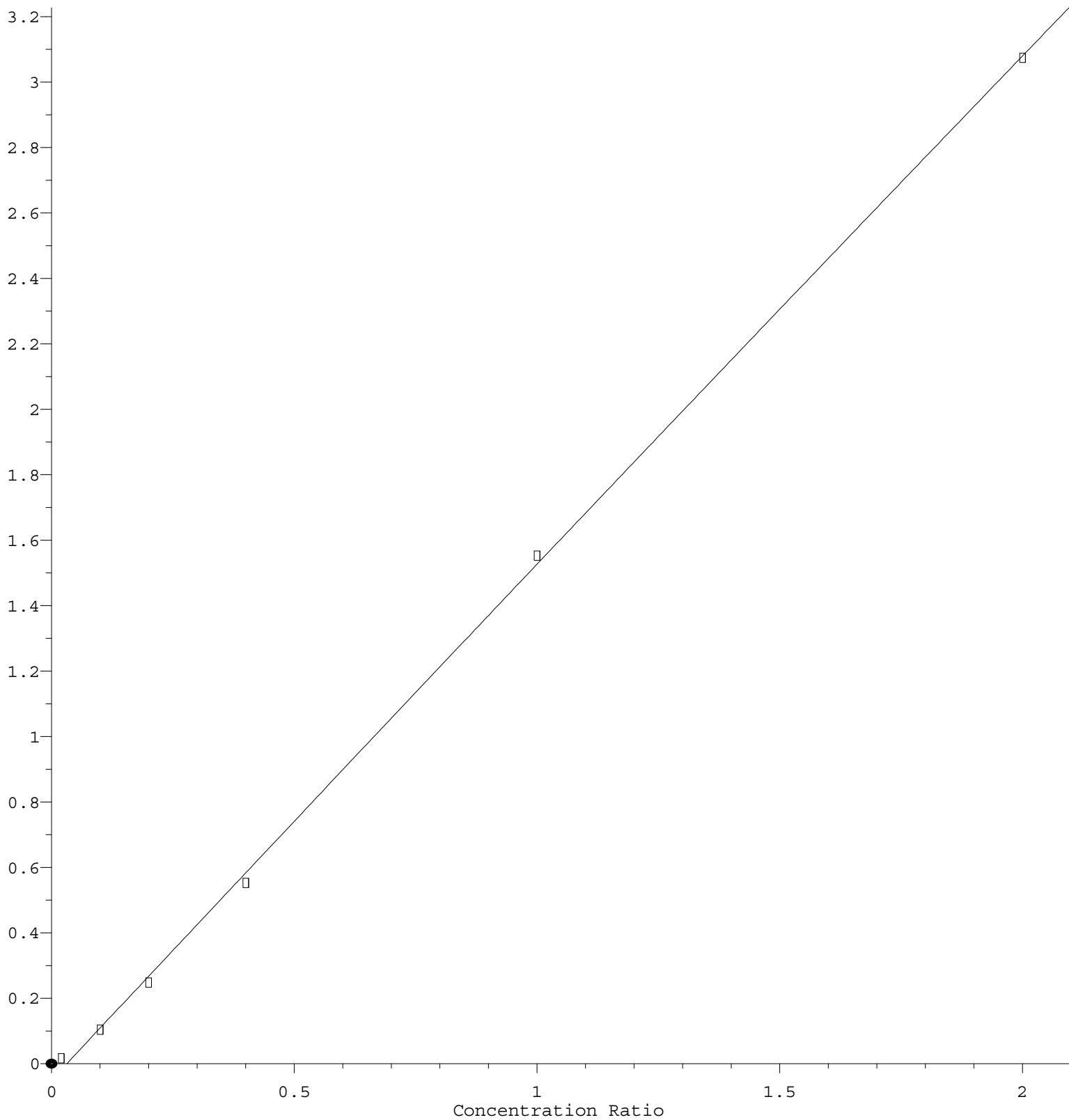
1,2-Dibromo-3-Chloropropane

Response Ratio



Styrene

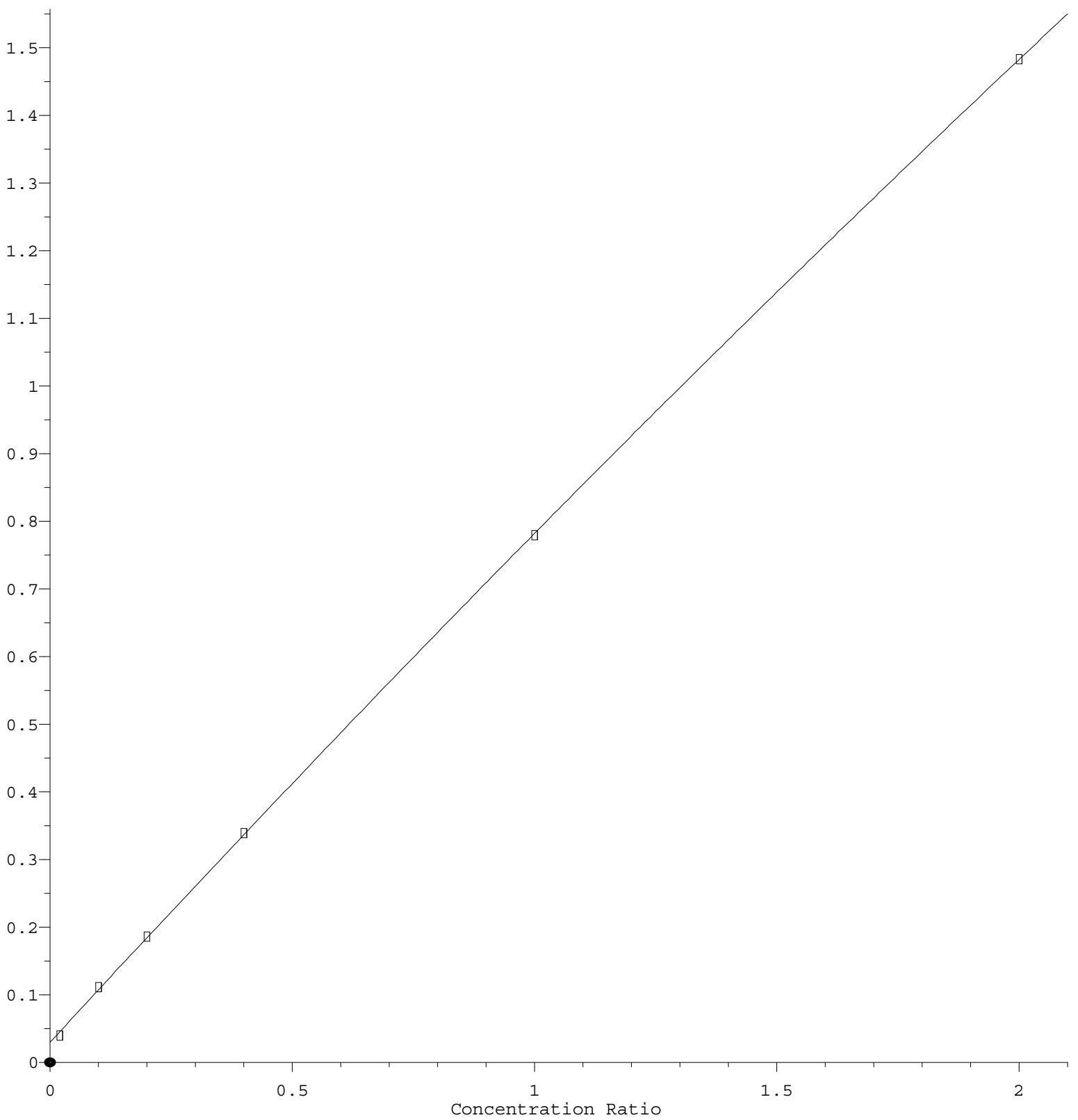
Response Ratio



- 1
- 2
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- 15
- 16

Methylene Chloride

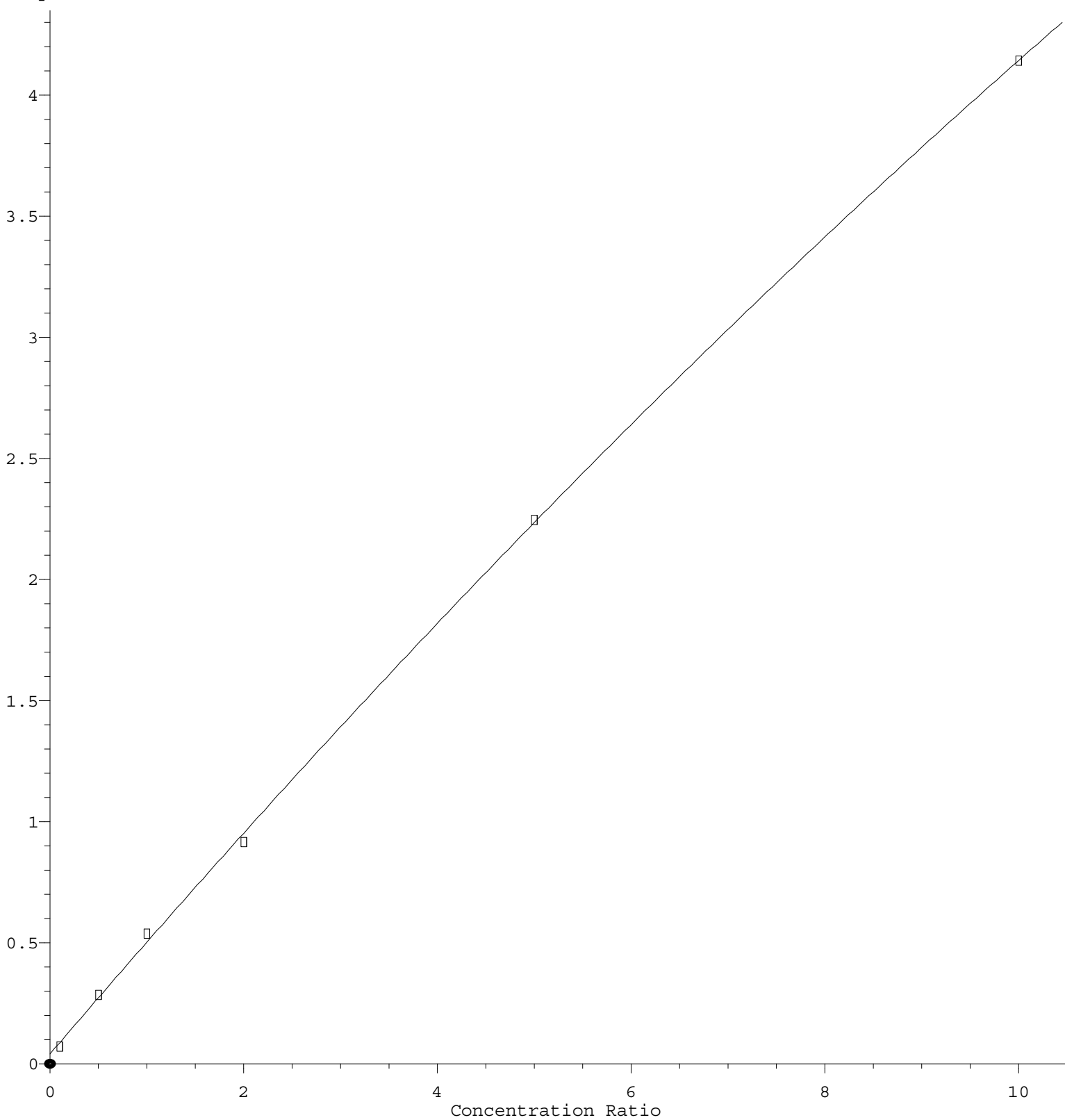
Response Ratio



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- 15
- 16

Acetone

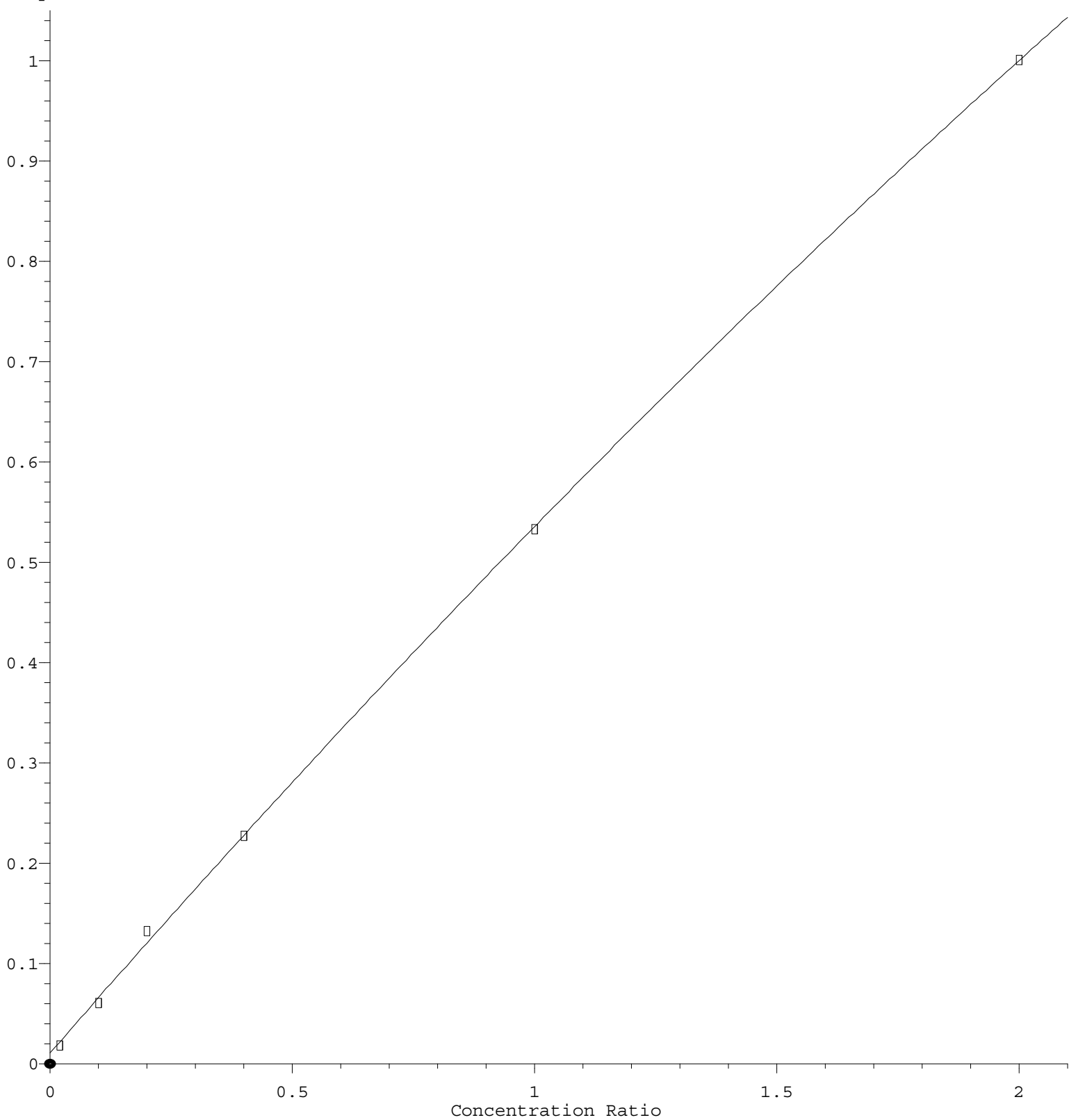
Response Ratio



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- 14
- 15
- 16

Chloroethane

Response Ratio



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
 Data File : VV039137.D
 Acq On : 22 Sep 2025 12:26
 Operator : SY/MD
 Sample : VSTDICC010
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDICC010

Quant Time: Sep 24 07:21:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 24 07:14:23 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	4.597	168	501722	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.529	114	837272	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.773	117	824583	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	463438	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.944	65	77610	10.688	ug/l	0.00
Spiked Amount	50.000	Range	81 - 118	Recovery	=	21.380%#
35) Dibromofluoromethane	4.503	113	72914	10.833	ug/l	0.00
Spiked Amount	50.000	Range	80 - 119	Recovery	=	21.660%#
50) Toluene-d8	7.240	98	195300	9.879	ug/l	0.00
Spiked Amount	50.000	Range	89 - 112	Recovery	=	19.760%#
62) 4-Bromofluorobenzene	10.005	95	80587	9.902	ug/l	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	=	19.800%#

Target Compounds				Qvalue		
2) Dichlorodifluoromethane	1.121	85	85113	10.716	ug/l	99
3) Chloromethane	1.230	50	95215	11.167	ug/l	95
4) Vinyl Chloride	1.298	62	101023	11.068	ug/l	99
5) Bromomethane	1.500	94	63359	11.011	ug/l	98
6) Chloroethane	1.561	64	66412	11.087	ug/l	98
7) Trichlorofluoromethane	1.729	101	139927	10.588	ug/l	98
8) Diethyl Ether	1.918	74	50669	10.328	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.082	101	84221	10.711	ug/l	99
10) Methyl Iodide	2.198	142	77448	10.343	ug/l	98
11) Tert butyl alcohol	2.568	59	84609	55.130	ug/l	99
12) 1,1-Dichloroethene	2.082	96	80704	10.669	ug/l	97
13) Acrolein	2.015	56	13557	50.908	ug/l #	80
14) Allyl chloride	2.359	41	139249	10.305	ug/l	98
15) Acrylonitrile	2.674	53	254235	51.676	ug/l	99
16) Acetone	2.121	43	269573	53.773	ug/l	99
17) Carbon Disulfide	2.253	76	246125	10.639	ug/l	99
18) Methyl Acetate	2.381	43	115005	10.689	ug/l	97
19) Methyl tert-butyl Ether	2.712	73	255535	10.601	ug/l	99
20) Methylene Chloride	2.455	84	93350	10.106	ug/l	99
21) trans-1,2-Dichloroethene	2.703	96	84891	10.541	ug/l	95
22) Diisopropyl ether	3.214	45	276604	10.699	ug/l #	68
23) Vinyl Acetate	3.191	43	1200618	53.087	ug/l	100
24) 1,1-Dichloroethane	3.118	63	167496	10.594	ug/l	100
25) 2-Butanone	3.873	43	303016	53.015	ug/l	100
26) 2,2-Dichloropropane	3.809	77	136919	9.806	ug/l	100
27) cis-1,2-Dichloroethene	3.822	96	91069	10.254	ug/l	99
28) Bromochloromethane	4.146	49	83889	12.019	ug/l	98
29) Tetrahydrofuran	4.240	42	188818	51.879	ug/l	96
30) Chloroform	4.278	83	175847	10.652	ug/l	97
31) Cyclohexane	4.584	56	132996	10.269	ug/l	96
32) 1,1,1-Trichloroethane	4.513	97	156733	10.966	ug/l	96
36) 1,1-Dichloropropene	4.744	75	104420	10.187	ug/l	99
37) Ethyl Acetate	3.982	43	119710	9.520	ug/l #	91
38) Carbon Tetrachloride	4.732	117	124321	10.069	ug/l	98
39) Methylcyclohexane	6.043	83	117354	9.549	ug/l	94
40) Benzene	5.008	78	347728	10.493	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VW092225\
 Data File : VW039137.D
 Acq On : 22 Sep 2025 12:26
 Operator : SY/MD
 Sample : VSTDIC010
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDIC010

Quant Time: Sep 24 07:21:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 24 07:14:23 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.169	41	45674	9.764	ug/l	90
42) 1,2-Dichloroethane	5.043	62	121437	10.458	ug/l	100
43) Isopropyl Acetate	5.195	43	172880	9.980	ug/l	97
44) Trichloroethene	5.834	130	78943	10.324	ug/l	93
45) 1,2-Dichloropropane	6.092	63	85295	10.355	ug/l	99
46) Dibromomethane	6.230	93	65717	10.424	ug/l	98
47) Bromodichloromethane	6.426	83	139261	10.685	ug/l	97
48) Methyl methacrylate	6.304	41	68465	8.639	ug/l	97
49) 1,4-Dioxane	6.297	88	23699	190.260	ug/l	99
51) 4-Methyl-2-Pentanone	7.150	43	598702	54.051	ug/l	97
52) Toluene	7.310	92	202741	10.552	ug/l	100
53) t-1,3-Dichloropropene	7.580	75	117314	10.329	ug/l	97
54) cis-1,3-Dichloropropene	6.950	75	134529	10.729	ug/l	98
55) 1,1,2-Trichloroethane	7.764	97	89390	10.376	ug/l	98
56) Ethyl methacrylate	7.719	69	95279	9.313	ug/l	99
57) 1,3-Dichloropropane	7.934	76	144218	10.607	ug/l	98
58) 2-Chloroethyl Vinyl ether	6.815	63	220693	46.148	ug/l	99
59) 2-Hexanone	8.066	43	422703	49.020	ug/l	93
60) Dibromochloromethane	8.169	129	101236	10.313	ug/l	97
61) 1,2-Dibromoethane	8.275	107	93182	10.576	ug/l	100
64) Tetrachloroethene	7.899	164	71811	10.397	ug/l	98
65) Chlorobenzene	8.805	112	231329	10.072	ug/l	99
66) 1,1,1,2-Tetrachloroethane	8.899	131	85678	10.324	ug/l	99
67) Ethyl Benzene	8.937	91	334394	9.618	ug/l	99
68) m/p-Xylenes	9.063	106	270452	20.155	ug/l	99
69) o-Xylene	9.468	106	115922	9.756	ug/l	96
70) Styrene	9.487	104	204368	9.382	ug/l	100
71) Bromoform	9.657	173	65302	10.074	ug/l #	98
73) Isopropylbenzene	9.857	105	330305	9.827	ug/l	99
74) N-amyl acetate	9.725	43	132108	9.853	ug/l	96
75) 1,1,2,2-Tetrachloroethane	10.165	83	148267	10.067	ug/l	99
76) 1,2,3-Trichloropropane	10.198	75	105275	9.977	ug/l	99
77) Bromobenzene	10.143	156	87828	10.071	ug/l	96
78) n-propylbenzene	10.278	91	401316	9.804	ug/l	100
79) 2-Chlorotoluene	10.349	91	255053	10.413	ug/l	99
80) 1,3,5-Trimethylbenzene	10.464	105	270977	9.699	ug/l	98
81) trans-1,4-Dichloro-2-b...	9.931	75	44314	10.082	ug/l	97
82) 4-Chlorotoluene	10.464	91	292863	10.312	ug/l	100
83) tert-Butylbenzene	10.789	119	267528	9.603	ug/l	98
84) 1,2,4-Trimethylbenzene	10.841	105	256505	9.457	ug/l	99
85) sec-Butylbenzene	11.011	105	354312	9.588	ug/l	100
86) p-Isopropyltoluene	11.169	119	300032	9.755	ug/l	99
87) 1,3-Dichlorobenzene	11.108	146	178990	10.141	ug/l	98
88) 1,4-Dichlorobenzene	11.198	146	191843	9.835	ug/l	97
89) n-Butylbenzene	11.580	91	281258	9.575	ug/l	97
90) Hexachloroethane	11.821	117	74910	9.891	ug/l	96
91) 1,2-Dichlorobenzene	11.567	146	162271	9.841	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	12.355	75	27674	10.167	ug/l	98
93) 1,2,4-Trichlorobenzene	13.188	180	85982	9.096	ug/l	98
94) Hexachlorobutadiene	13.368	225	47413	9.653	ug/l	97
95) Naphthalene	13.426	128	267645	8.803	ug/l	99
96) 1,2,3-Trichlorobenzene	13.667	180	90238	9.334	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039137.D
Acq On : 22 Sep 2025 12:26
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

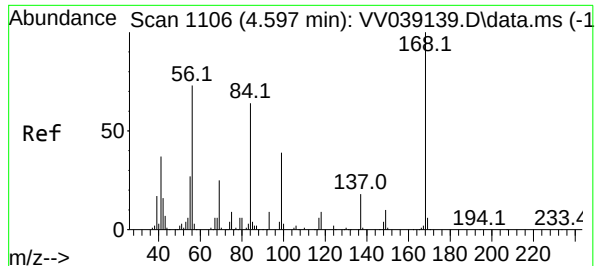
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Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

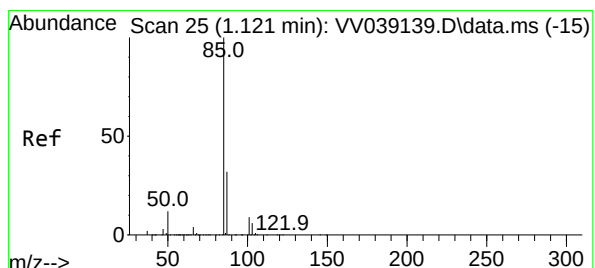
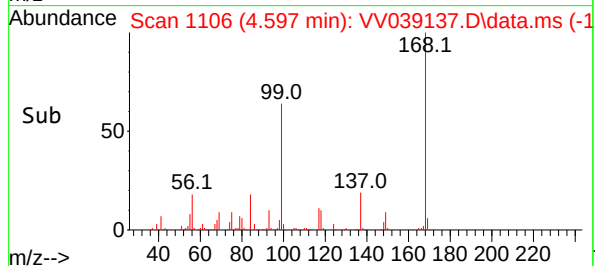
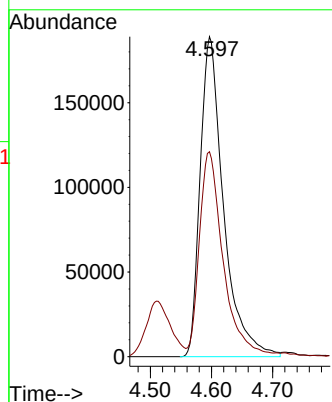
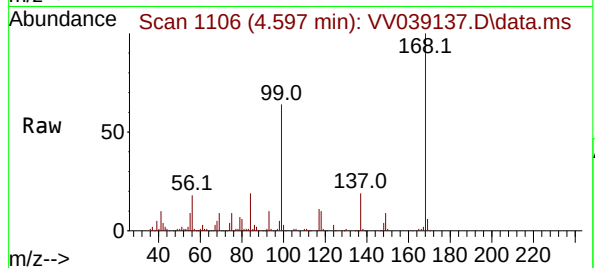
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.597 min Scan# 1106
Delta R.T. -0.000 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

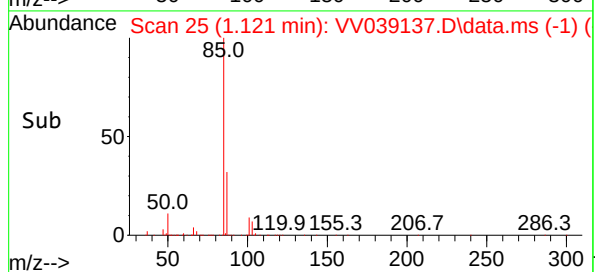
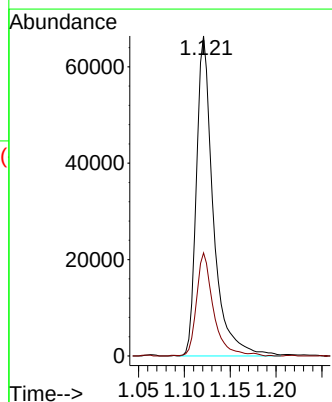
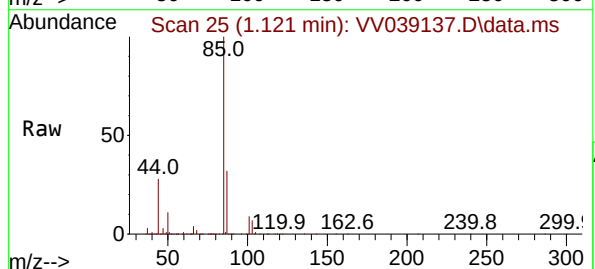
Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

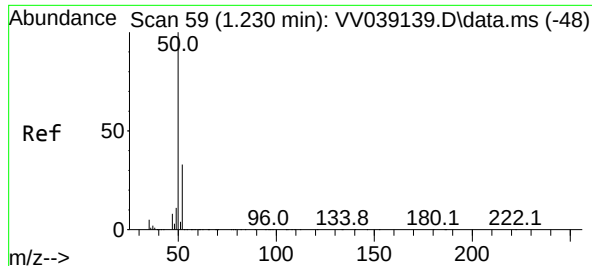
Tgt Ion:168 Resp: 501722
Ion Ratio Lower Upper
168 100
99 63.0 49.6 74.4



#2
Dichlorodifluoromethane
Concen: 10.716 ug/l
RT: 1.121 min Scan# 25
Delta R.T. 0.000 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 85 Resp: 85113
Ion Ratio Lower Upper
85 100
87 32.2 16.0 47.9





#3

Chloromethane

Concen: 11.167 ug/l

RT: 1.230 min Scan# 59

Delta R.T. 0.000 min

Lab File: VV039137.D

Acq: 22 Sep 2025 12:26

Instrument :

MSVOA_V

ClientSampleId :

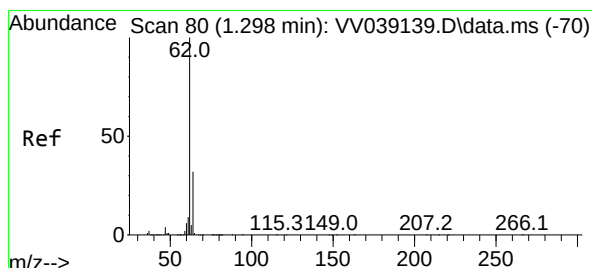
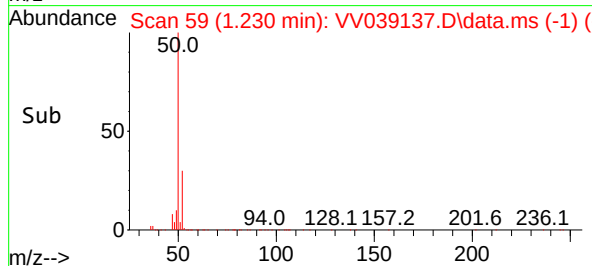
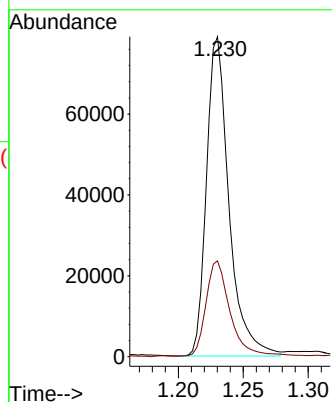
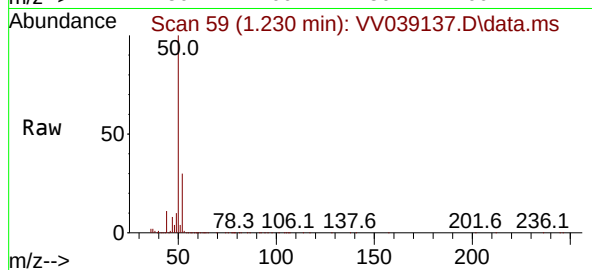
VSTDIC010

Tgt Ion: 50 Resp: 95215

Ion Ratio Lower Upper

50 100

52 29.8 26.0 39.0



#4

Vinyl Chloride

Concen: 11.068 ug/l

RT: 1.298 min Scan# 80

Delta R.T. 0.000 min

Lab File: VV039137.D

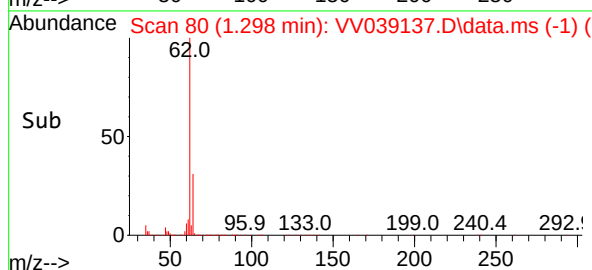
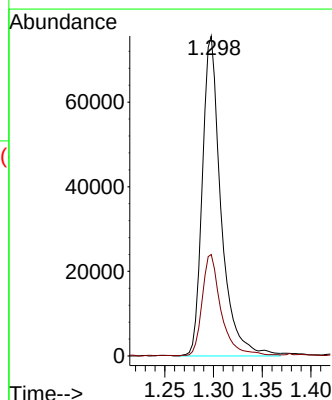
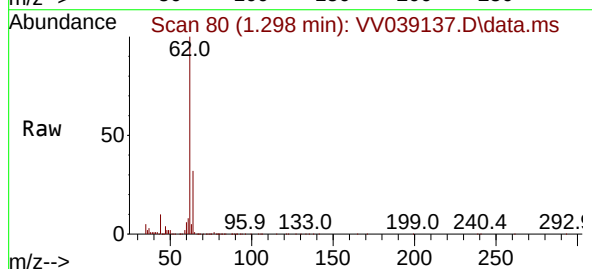
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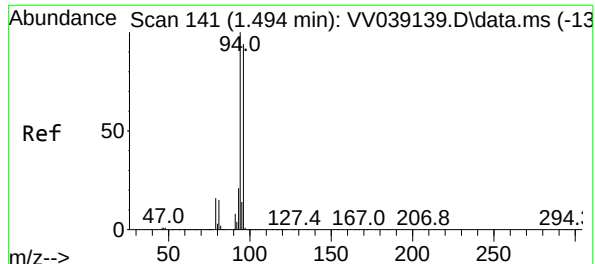
Tgt Ion: 62 Resp: 101023

Ion Ratio Lower Upper

62 100

64 31.5 25.6 38.4

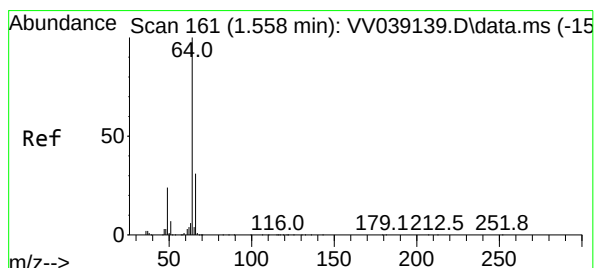
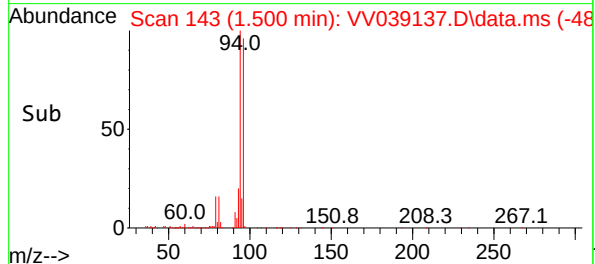
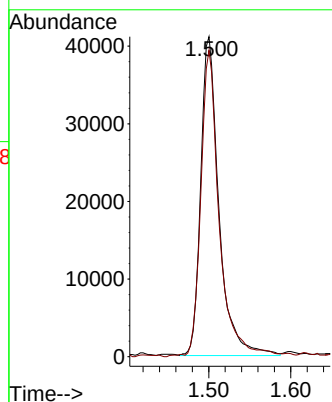
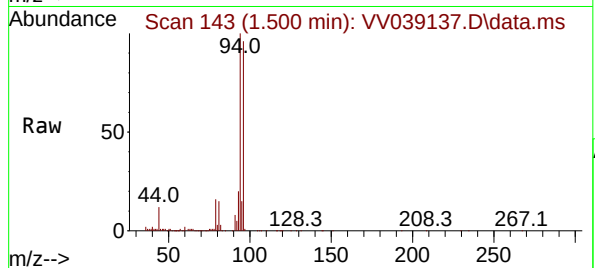




#5
Bromomethane
Concen: 11.011 ug/l
RT: 1.500 min Scan# 141
Delta R.T. 0.006 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

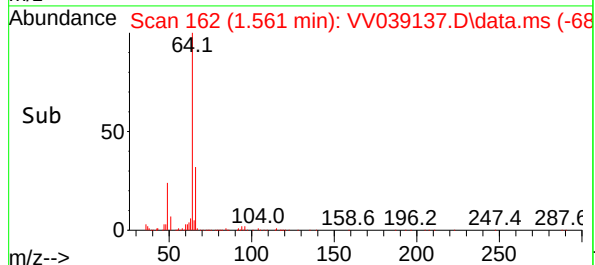
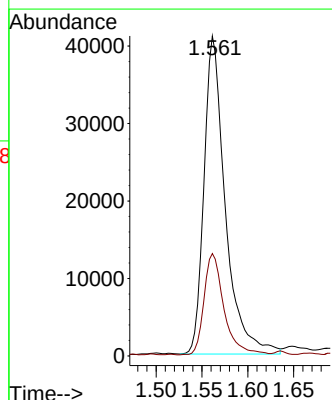
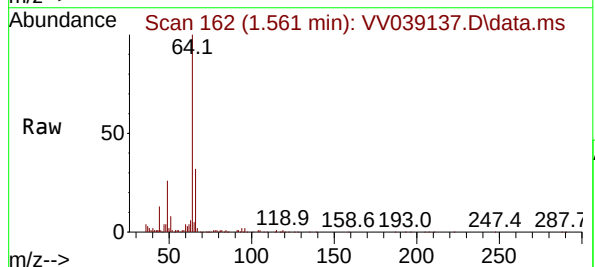
Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

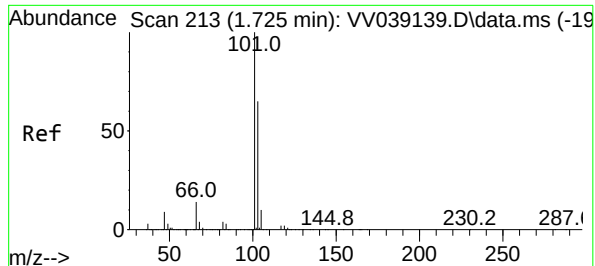
Tgt Ion: 94 Resp: 63359
Ion Ratio Lower Upper
94 100
96 95.4 74.9 112.3



#6
Chloroethane
Concen: 11.087 ug/l
RT: 1.561 min Scan# 162
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 64 Resp: 66412
Ion Ratio Lower Upper
64 100
66 31.8 24.6 36.8

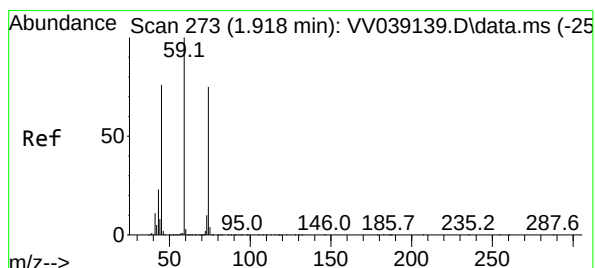
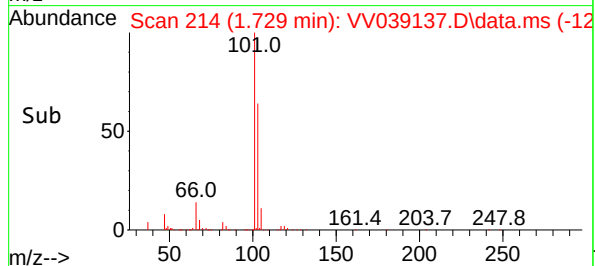
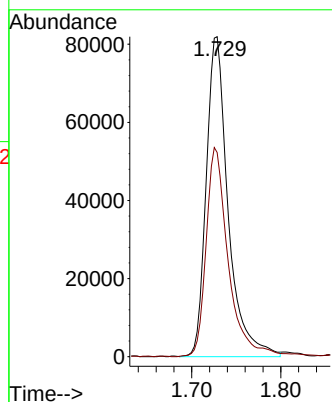
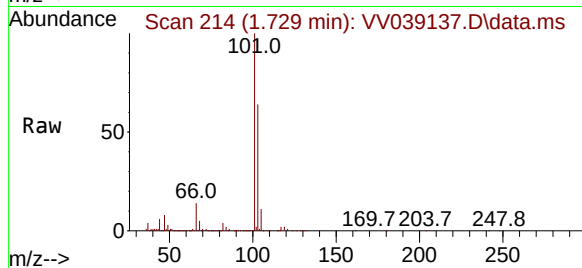




#7
Trichlorofluoromethane
Concen: 10.588 ug/l
RT: 1.729 min Scan# 213
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

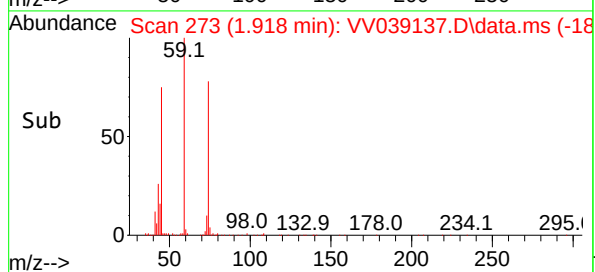
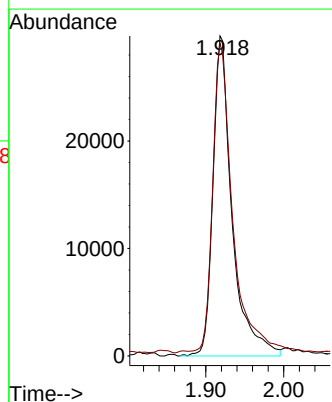
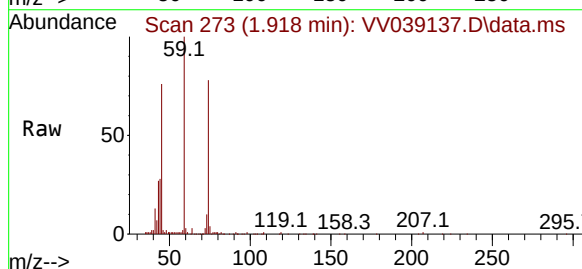
Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

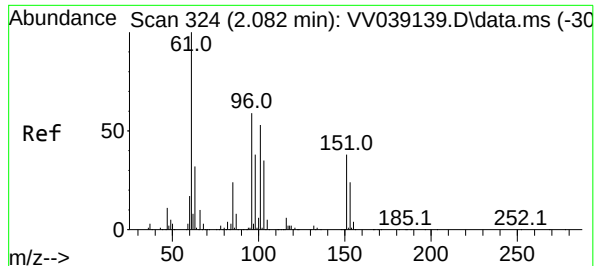
Tgt Ion:101 Resp: 139927
Ion Ratio Lower Upper
101 100
103 63.6 52.0 78.0



#8
Diethyl Ether
Concen: 10.328 ug/l
RT: 1.918 min Scan# 273
Delta R.T. 0.000 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 74 Resp: 50669
Ion Ratio Lower Upper
74 100
45 100.7 49.6 148.8

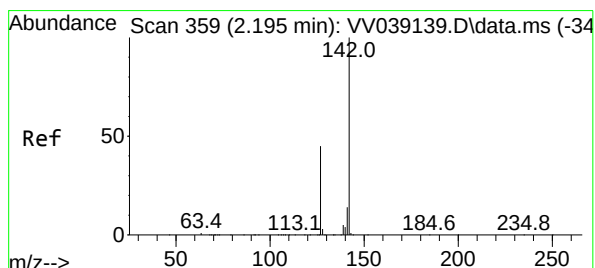
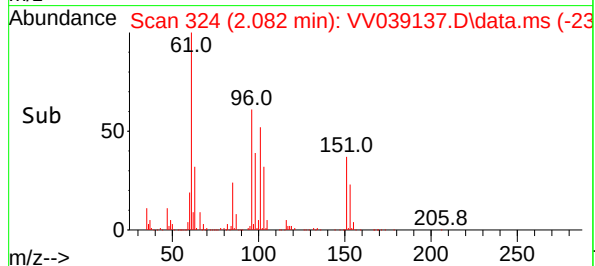
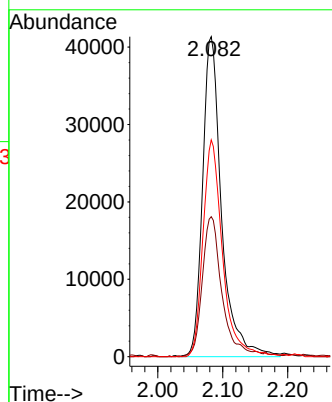
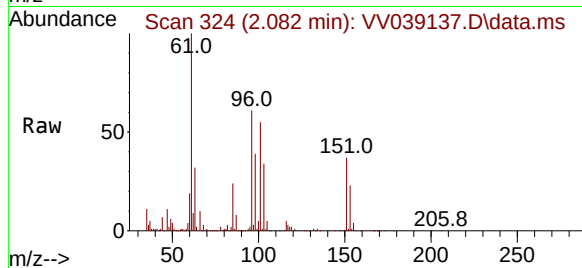




#9
1,1,2-Trichlorotrifluoroethane
Concen: 10.711 ug/l
RT: 2.082 min Scan# 31
Delta R.T. 0.000 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

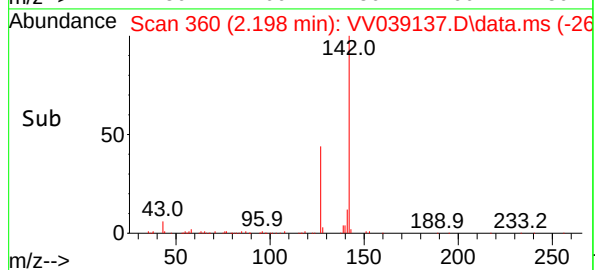
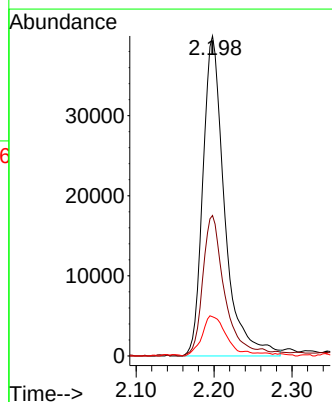
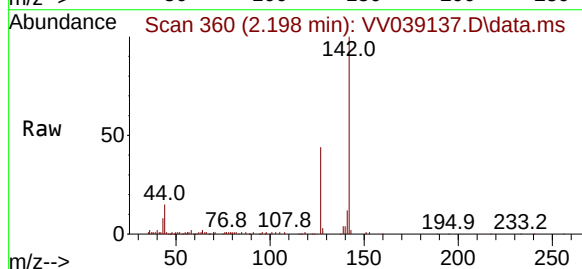
Instrument :
MSVOA_V
ClientSampleId :
VSTDIC010

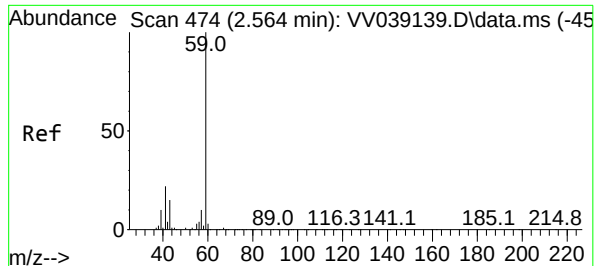
Tgt Ion	101	Resp:	84221
Ion	Ratio	Lower	Upper
101	100		
85	45.5	36.2	54.2
151	69.6	56.3	84.5



#10
Methyl Iodide
Concen: 10.343 ug/l
RT: 2.198 min Scan# 360
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion	142	Resp:	77448
Ion	Ratio	Lower	Upper
142	100		
127	43.6	36.3	54.5
141	13.5	11.2	16.8





#11

Tert butyl alcohol

Concen: 55.130 ug/l

RT: 2.568 min Scan# 41

Delta R.T. 0.003 min

Lab File: VV039137.D

Acq: 22 Sep 2025 12:26

Instrument :

MSVOA_V

ClientSampleId :

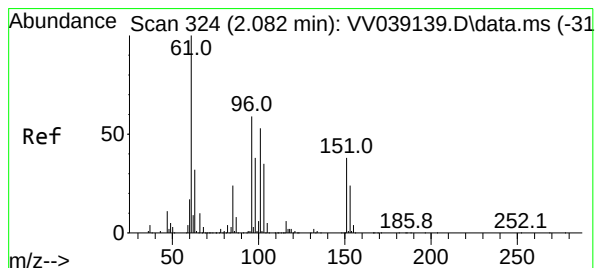
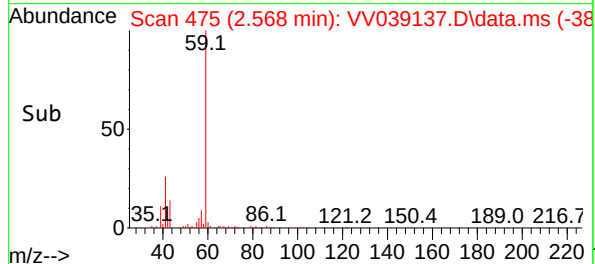
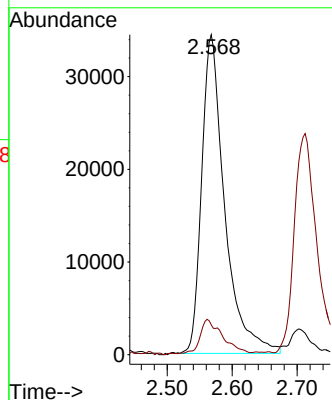
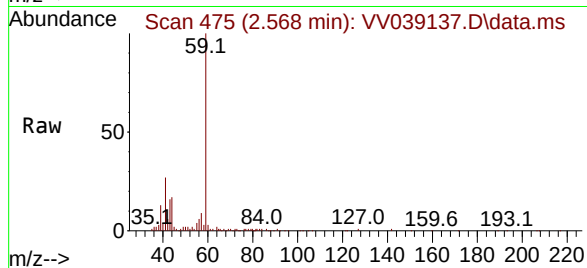
VSTDIC010

Tgt Ion: 59 Resp: 84609

Ion Ratio Lower Upper

59 100

57 10.3 7.8 11.8



#12

1,1-Dichloroethene

Concen: 10.669 ug/l

RT: 2.082 min Scan# 324

Delta R.T. 0.000 min

Lab File: VV039137.D

Acq: 22 Sep 2025 12:26

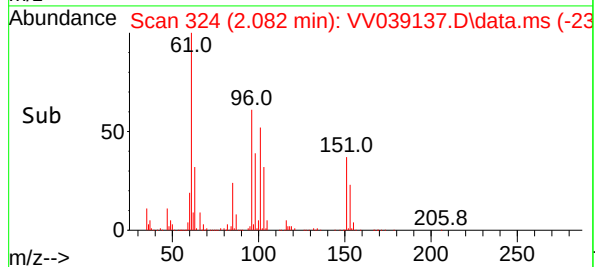
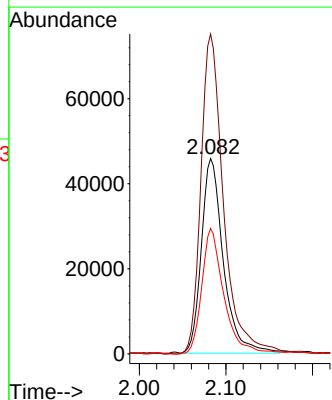
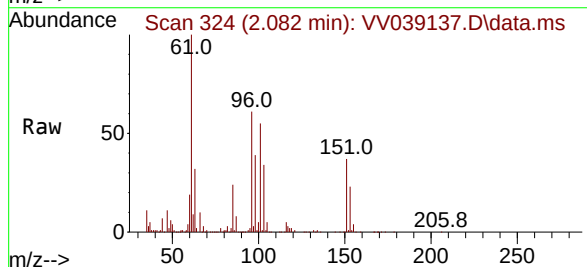
Tgt Ion: 96 Resp: 80704

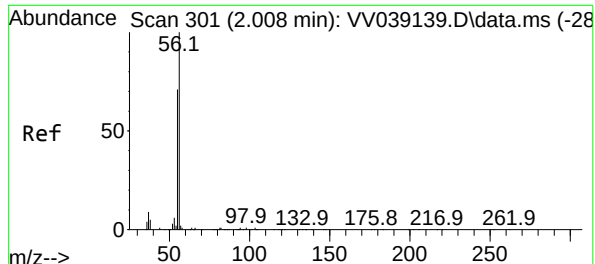
Ion Ratio Lower Upper

96 100

61 164.2 136.0 204.0

98 64.6 51.0 76.6





#13

Acrolein

Concen: 50.908 ug/l

RT: 2.015 min Scan# 301

Delta R.T. 0.006 min

Lab File: VV039137.D

Acq: 22 Sep 2025 12:26

Instrument :

MSVOA_V

ClientSampleId :

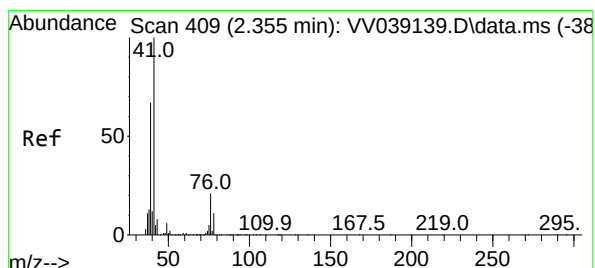
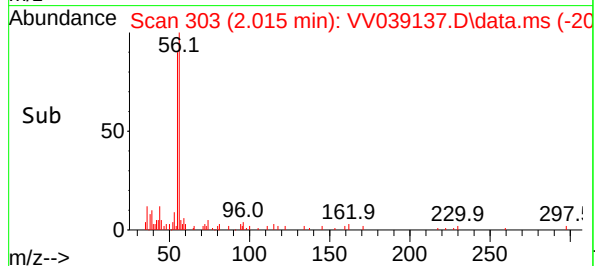
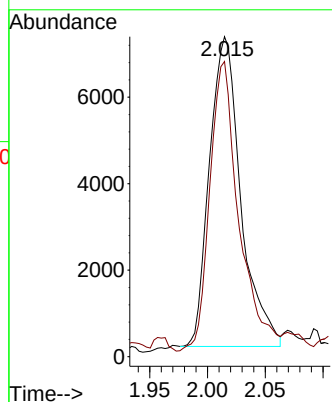
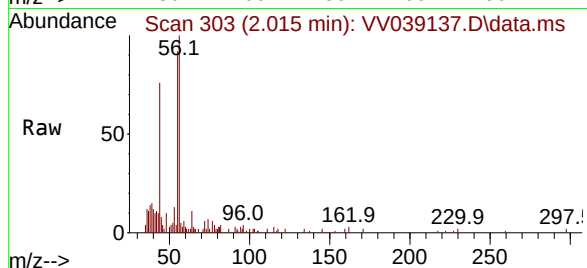
VSTDIC010

Tgt Ion: 56 Resp: 13557

Ion Ratio Lower Upper

56 100

55 86.9 56.2 84.4#



#14

Allyl chloride

Concen: 10.305 ug/l

RT: 2.359 min Scan# 410

Delta R.T. 0.003 min

Lab File: VV039137.D

Acq: 22 Sep 2025 12:26

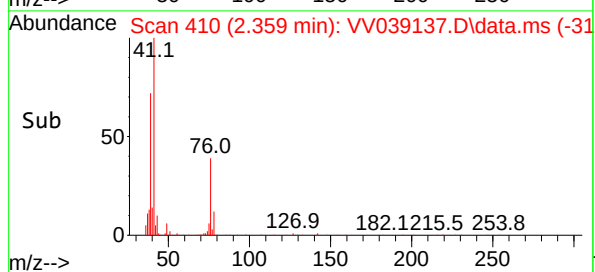
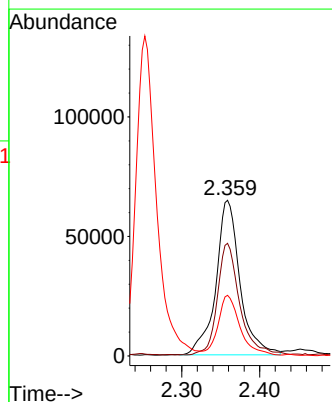
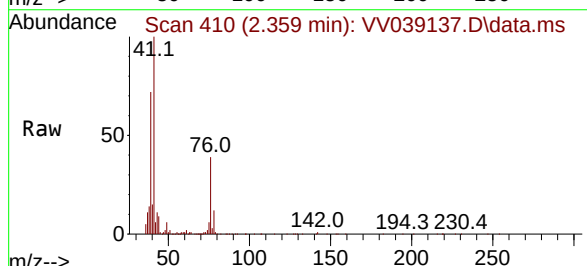
Tgt Ion: 41 Resp: 139249

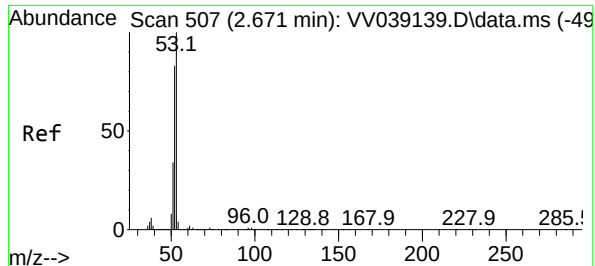
Ion Ratio Lower Upper

41 100

39 66.2 51.0 76.6

76 35.0 28.2 42.4





#15

Acrylonitrile

Concen: 51.676 ug/l

RT: 2.674 min Scan# 507

Delta R.T. 0.003 min

Lab File: VV039137.D

Acq: 22 Sep 2025 12:26

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC010

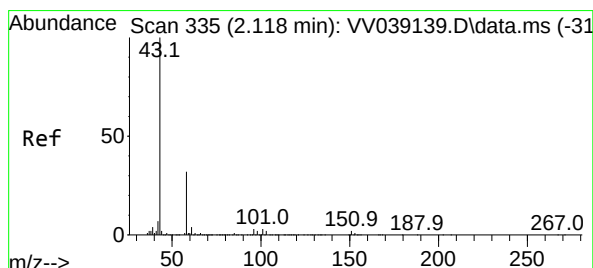
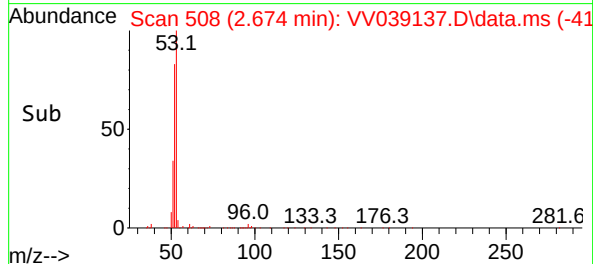
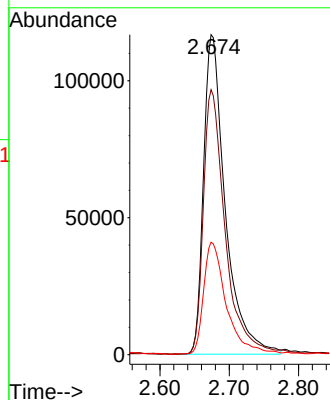
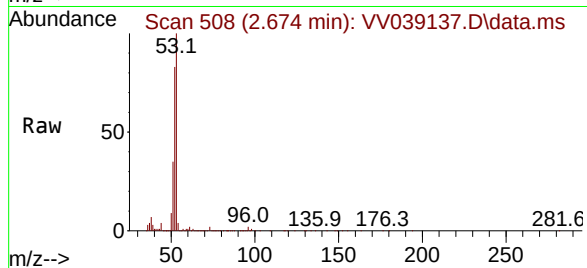
Tgt Ion: 53 Resp: 254235

Ion Ratio Lower Upper

53 100

52 83.1 66.1 99.1

51 36.5 28.5 42.7



#16

Acetone

Concen: 53.773 ug/l

RT: 2.121 min Scan# 336

Delta R.T. 0.003 min

Lab File: VV039137.D

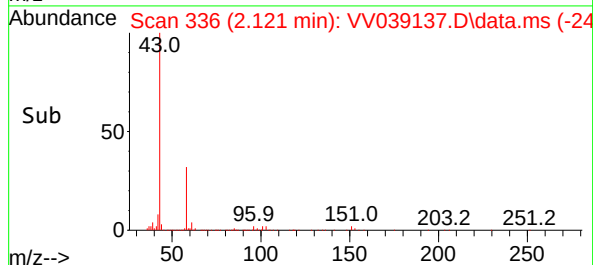
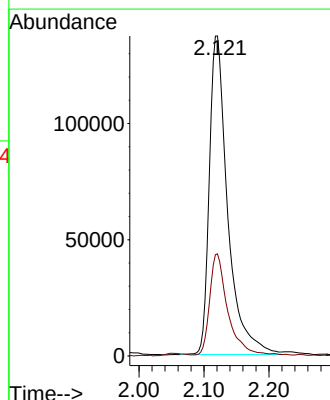
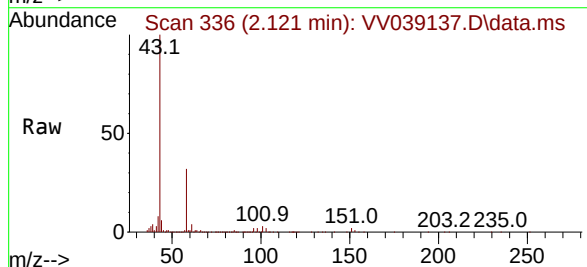
Acq: 22 Sep 2025 12:26

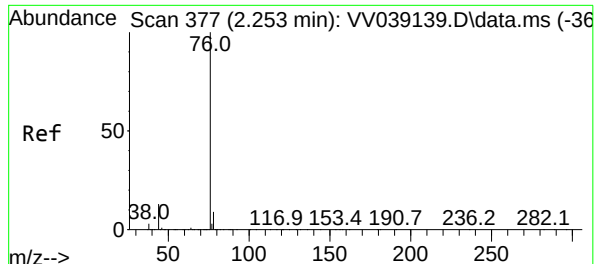
Tgt Ion: 43 Resp: 269573

Ion Ratio Lower Upper

43 100

58 31.6 25.8 38.6





#17

Carbon Disulfide

Concen: 10.639 ug/l

RT: 2.253 min Scan# 31

Delta R.T. 0.000 min

Lab File: VV039137.D

Acq: 22 Sep 2025 12:26

Instrument :

MSVOA_V

ClientSampleId :

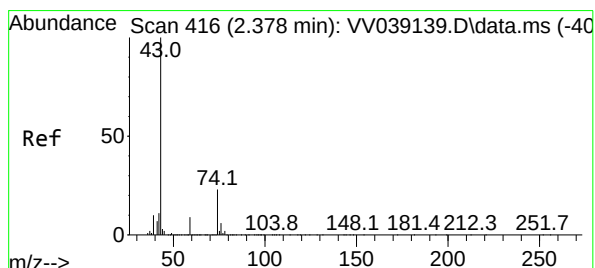
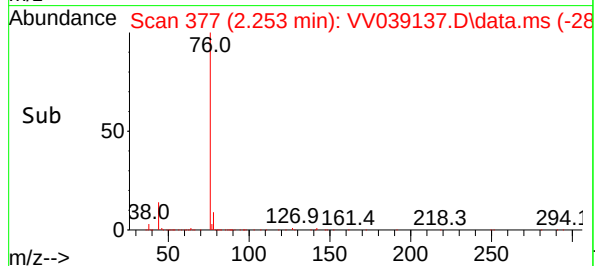
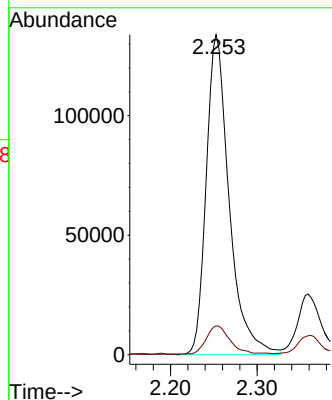
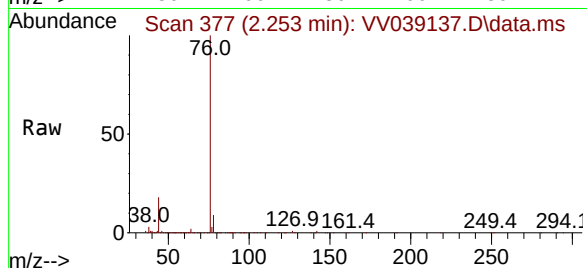
VSTDICC010

Tgt Ion: 76 Resp: 246125

Ion Ratio Lower Upper

76 100

78 8.8 7.4 11.0



#18

Methyl Acetate

Concen: 10.689 ug/l

RT: 2.381 min Scan# 417

Delta R.T. 0.003 min

Lab File: VV039137.D

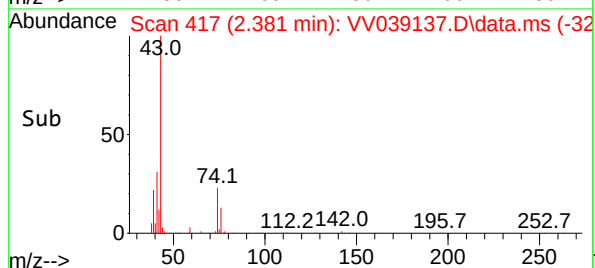
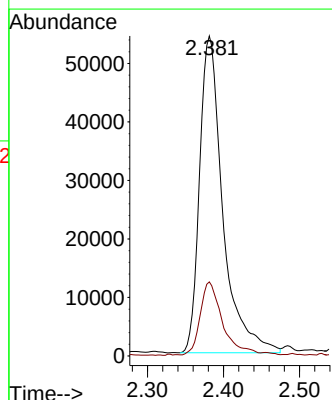
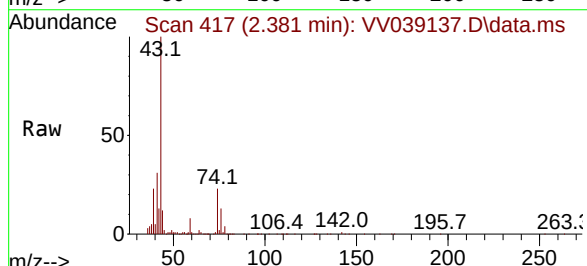
Acq: 22 Sep 2025 12:26

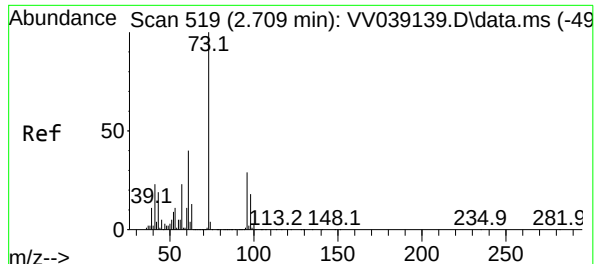
Tgt Ion: 43 Resp: 115005

Ion Ratio Lower Upper

43 100

74 21.9 18.6 27.8





#19

Methyl tert-butyl Ether

Concen: 10.601 ug/l

RT: 2.712 min Scan# 519

Delta R.T. 0.003 min

Lab File: VV039137.D

Acq: 22 Sep 2025 12:26

Instrument :

MSVOA_V

ClientSampleId :

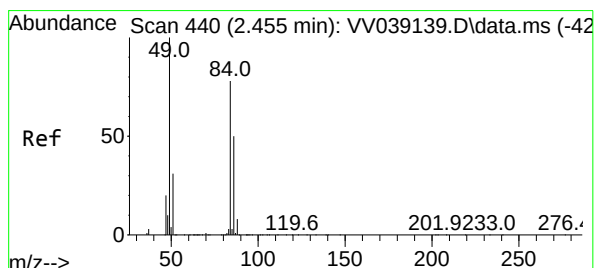
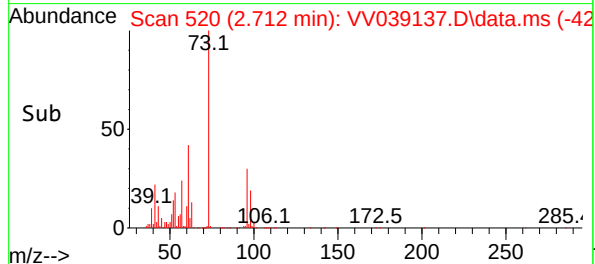
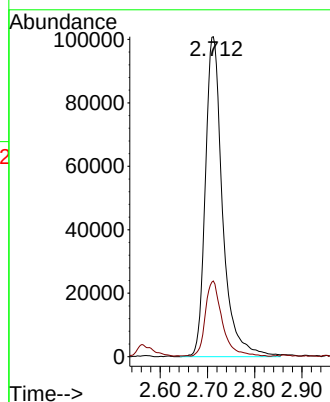
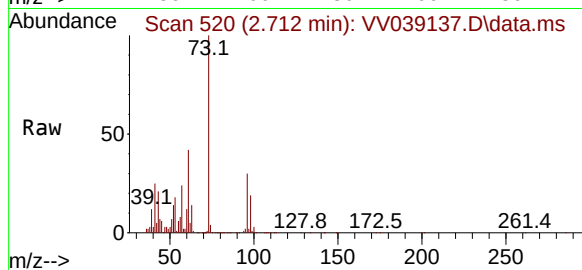
VSTDICC010

Tgt Ion: 73 Resp: 255535

Ion Ratio Lower Upper

73 100

57 23.4 18.2 27.4



#20

Methylene Chloride

Concen: 10.106 ug/l

RT: 2.455 min Scan# 440

Delta R.T. 0.000 min

Lab File: VV039137.D

Acq: 22 Sep 2025 12:26

Tgt Ion: 84 Resp: 93350

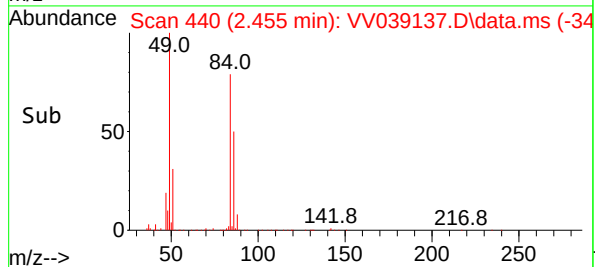
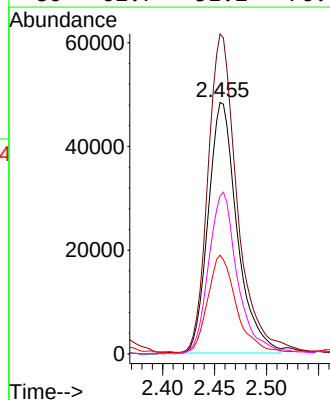
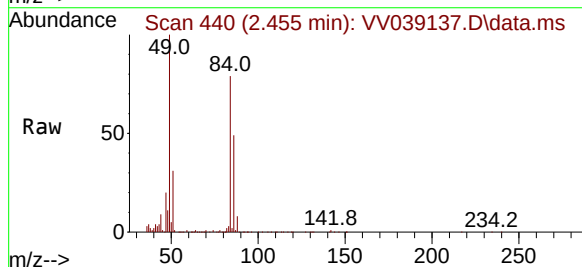
Ion Ratio Lower Upper

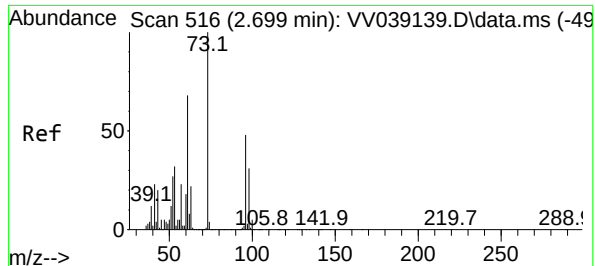
84 100

49 127.1 102.8 154.2

51 38.7 31.9 47.9

86 62.7 51.2 76.8

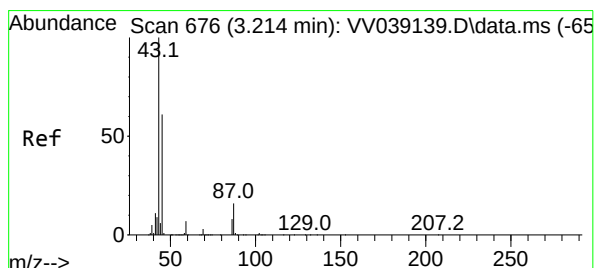
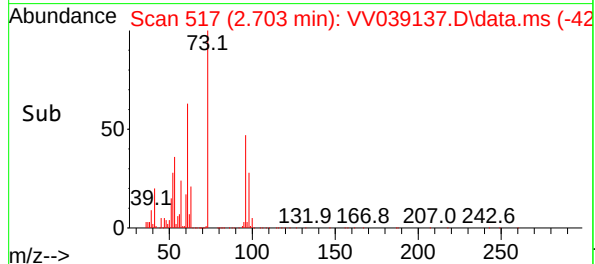
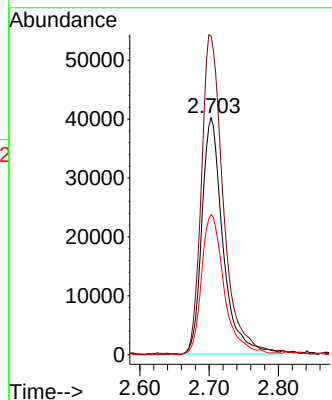
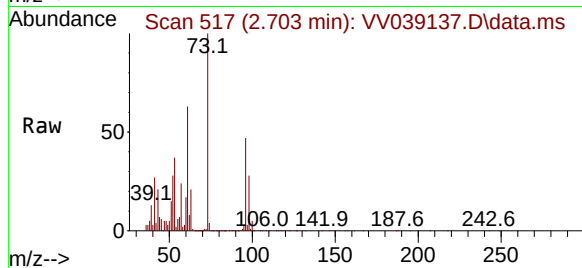




#21
trans-1,2-Dichloroethene
Concen: 10.541 ug/l
RT: 2.703 min Scan# 516
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

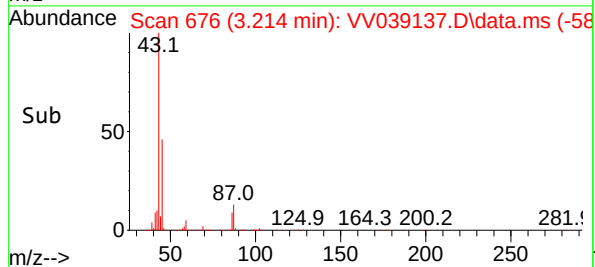
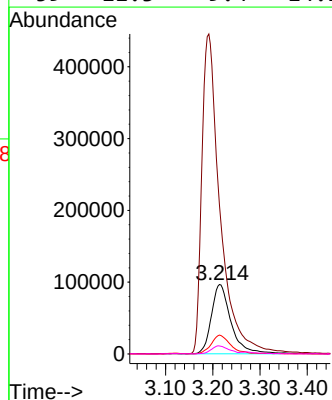
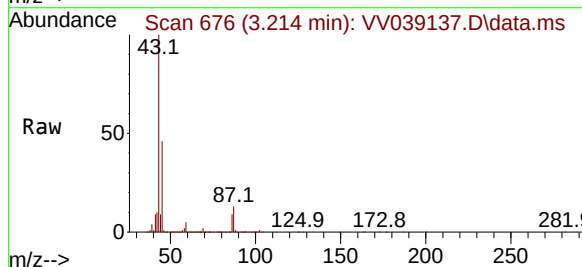
Instrument :
MSVOA_V
ClientSampleId :
VSTDIC010

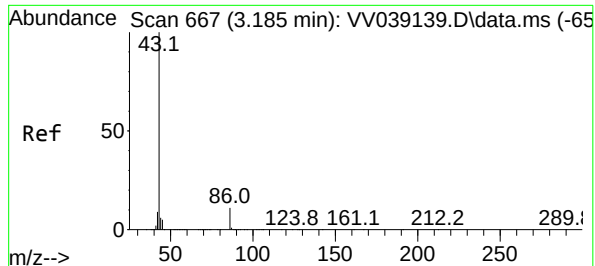
Tgt Ion: 96 Resp: 84891
Ion Ratio Lower Upper
96 100
61 135.3 112.8 169.2
98 59.5 51.1 76.7



#22
Diisopropyl ether
Concen: 10.699 ug/l
RT: 3.214 min Scan# 676
Delta R.T. 0.000 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 45 Resp: 276604
Ion Ratio Lower Upper
45 100
43 215.7 130.9 196.3#
87 26.8 21.1 31.7
59 11.3 9.4 14.2





#23

Vinyl Acetate

Concen: 53.087 ug/l

RT: 3.191 min Scan# 60

Delta R.T. 0.006 min

Lab File: VV039137.D

Acq: 22 Sep 2025 12:26

Instrument :

MSVOA_V

ClientSampleId :

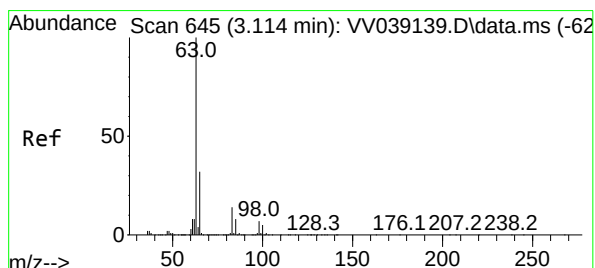
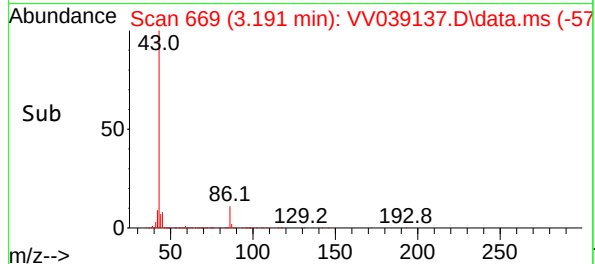
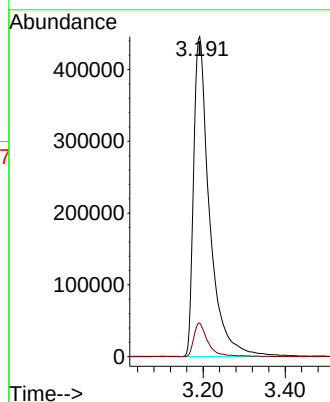
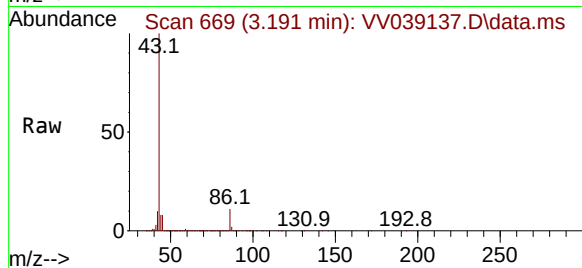
VSTDIC010

Tgt Ion: 43 Resp: 1200618

Ion Ratio Lower Upper

43 100

86 10.5 8.4 12.6



#24

1,1-Dichloroethane

Concen: 10.594 ug/l

RT: 3.118 min Scan# 646

Delta R.T. 0.003 min

Lab File: VV039137.D

Acq: 22 Sep 2025 12:26

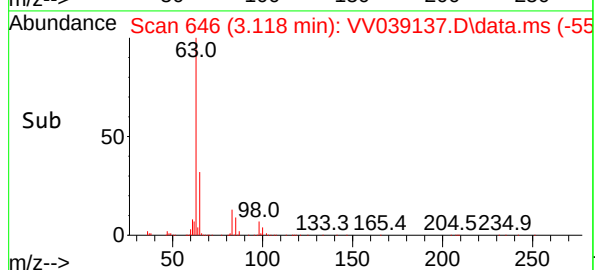
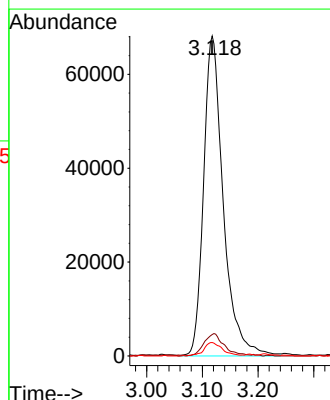
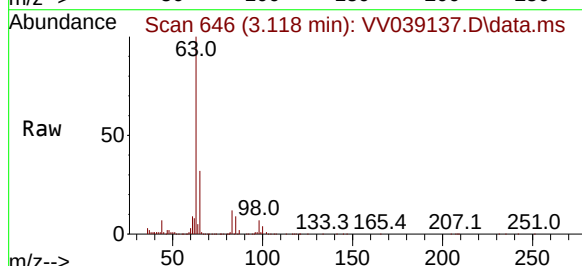
Tgt Ion: 63 Resp: 167496

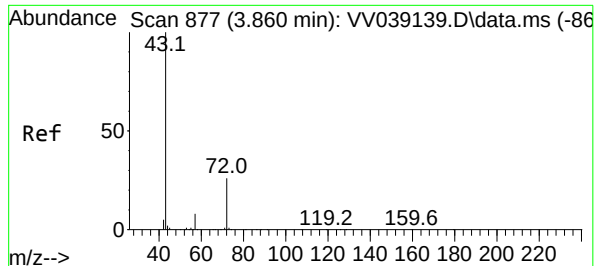
Ion Ratio Lower Upper

63 100

98 6.7 3.4 10.2

100 4.2 2.2 6.6





#25

2-Butanone

Concen: 53.015 ug/l

RT: 3.873 min Scan# 8

Delta R.T. 0.013 min

Lab File: VV039137.D

Acq: 22 Sep 2025 12:26

Instrument :

MSVOA_V

ClientSampleId :

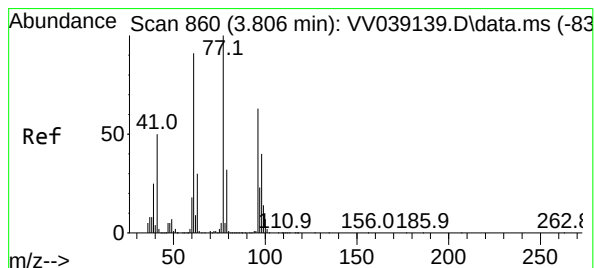
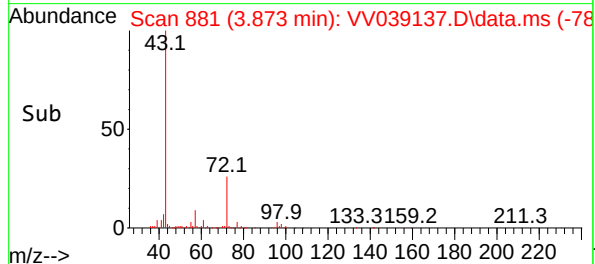
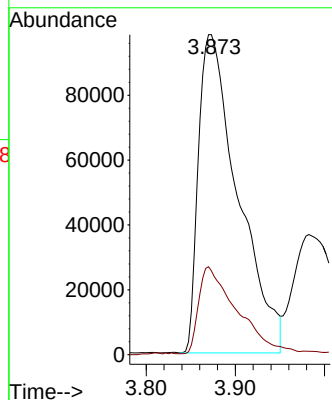
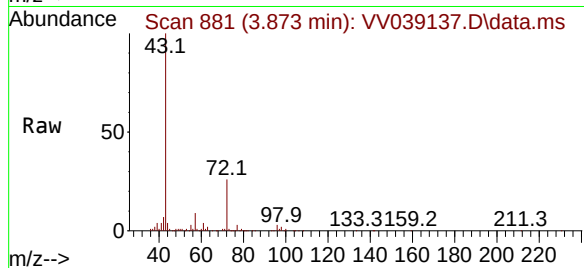
VSTDIC010

Tgt Ion: 43 Resp: 303016

Ion Ratio Lower Upper

43 100

72 26.0 21.0 31.6



#26

2,2-Dichloropropane

Concen: 9.806 ug/l

RT: 3.809 min Scan# 861

Delta R.T. 0.003 min

Lab File: VV039137.D

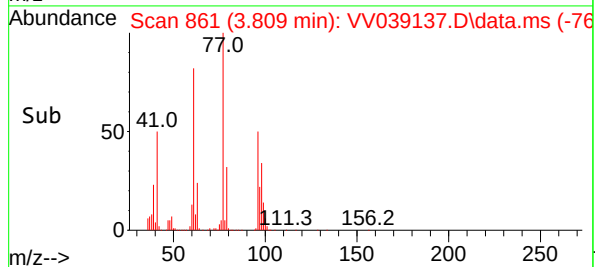
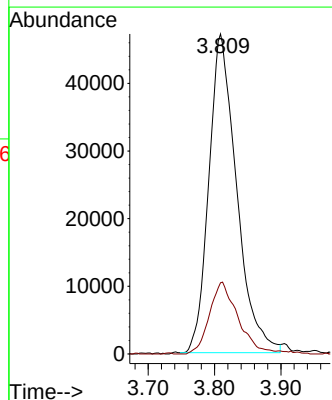
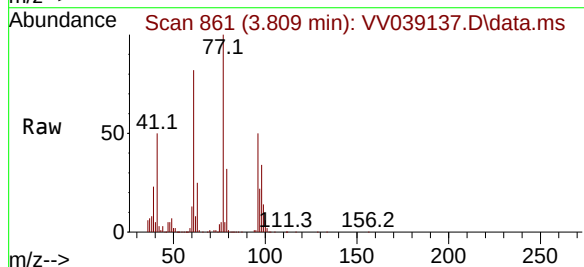
Acq: 22 Sep 2025 12:26

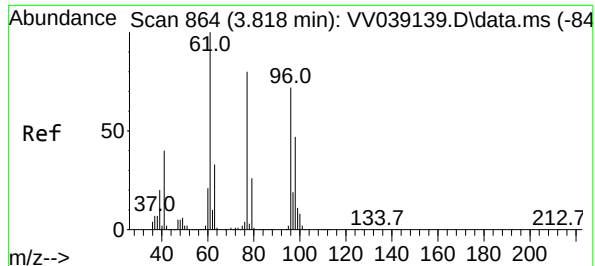
Tgt Ion: 77 Resp: 136919

Ion Ratio Lower Upper

77 100

97 23.1 11.6 34.7





#27

cis-1,2-Dichloroethene

Concen: 10.254 ug/l

RT: 3.822 min Scan# 865

Delta R.T. 0.003 min

Lab File: VV039137.D

Acq: 22 Sep 2025 12:26

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC010

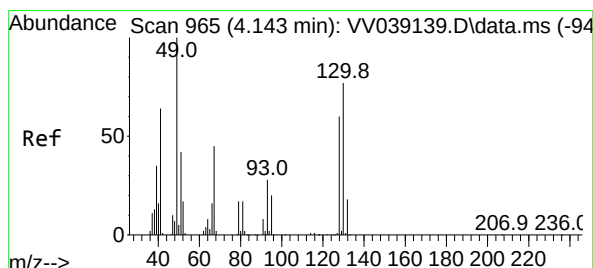
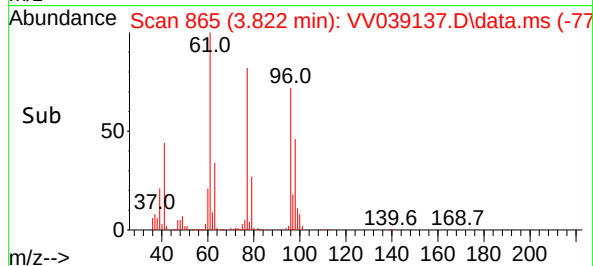
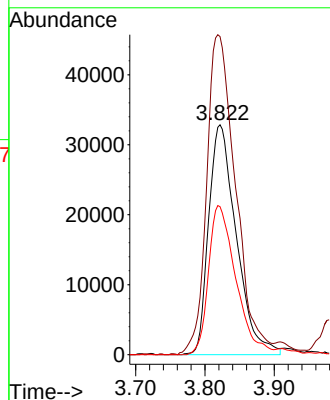
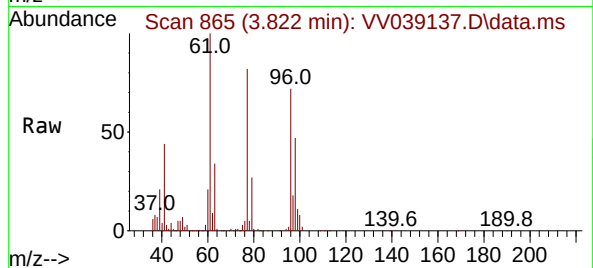
Tgt Ion: 96 Resp: 91069

Ion Ratio Lower Upper

96 100

61 145.4 0.0 286.4

98 63.9 0.0 126.6



#28

Bromochloromethane

Concen: 12.019 ug/l

RT: 4.146 min Scan# 966

Delta R.T. 0.003 min

Lab File: VV039137.D

Acq: 22 Sep 2025 12:26

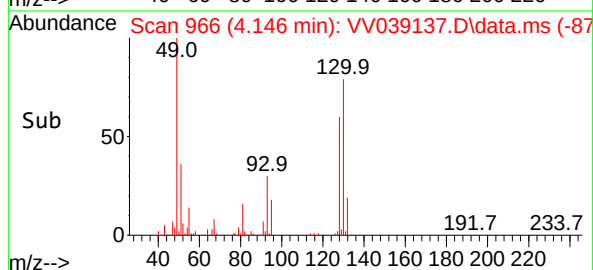
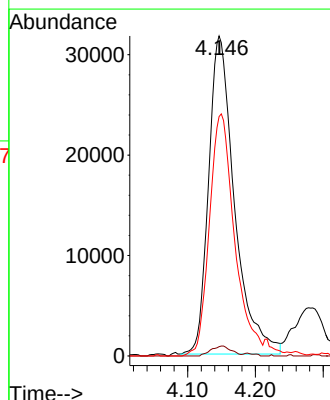
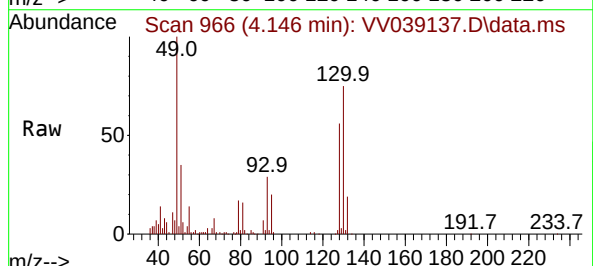
Tgt Ion: 49 Resp: 83889

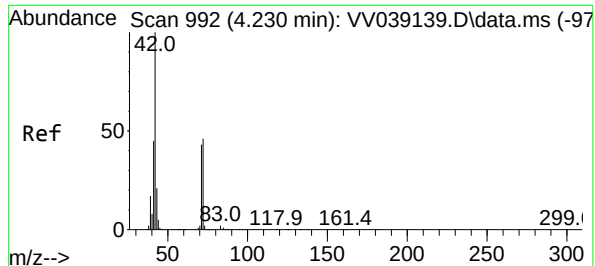
Ion Ratio Lower Upper

49 100

129 2.5 0.0 4.2

130 73.9 60.2 90.2





#29

Tetrahydrofuran

Concen: 51.879 ug/l

RT: 4.240 min Scan# 992

Delta R.T. 0.010 min

Lab File: VV039137.D

Acq: 22 Sep 2025 12:26

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC010

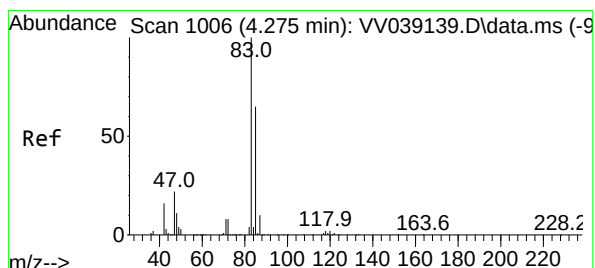
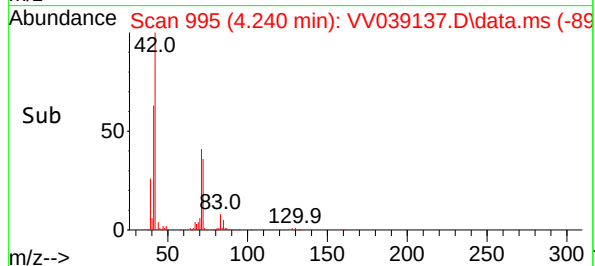
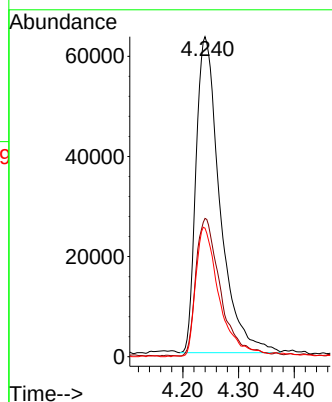
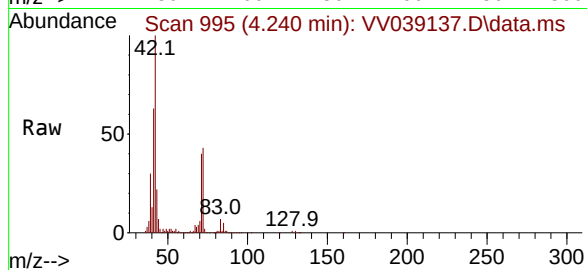
Tgt Ion: 42 Resp: 188818

Ion Ratio Lower Upper

42 100

72 43.7 36.3 54.5

71 40.0 34.3 51.5



#30

Chloroform

Concen: 10.652 ug/l

RT: 4.278 min Scan# 1007

Delta R.T. 0.003 min

Lab File: VV039137.D

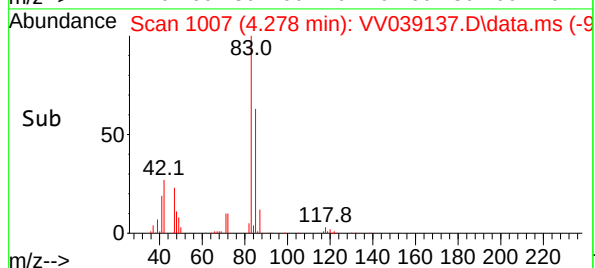
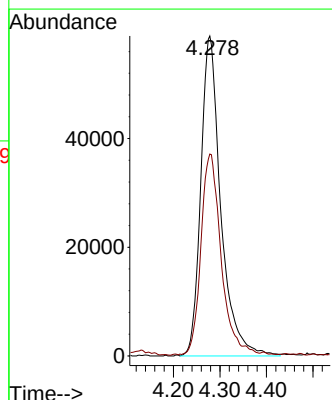
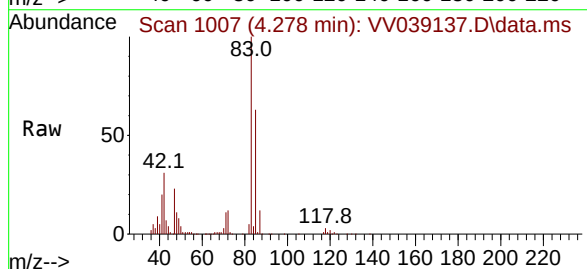
Acq: 22 Sep 2025 12:26

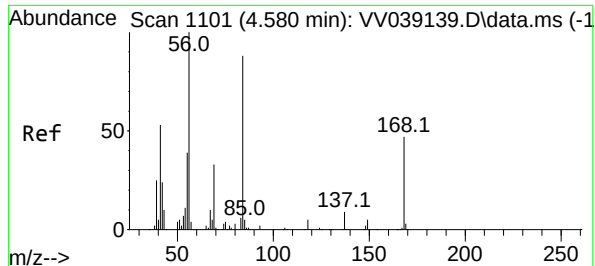
Tgt Ion: 83 Resp: 175847

Ion Ratio Lower Upper

83 100

85 62.6 52.1 78.1





#31

Cyclohexane

Concen: 10.269 ug/l

RT: 4.584 min Scan# 1101

Delta R.T. 0.003 min

Lab File: VV039137.D

Acq: 22 Sep 2025 12:26

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC010

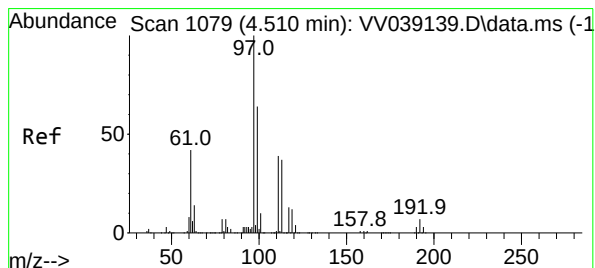
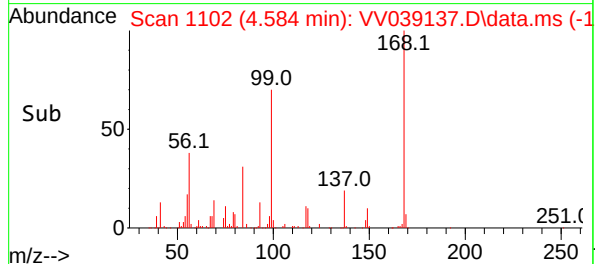
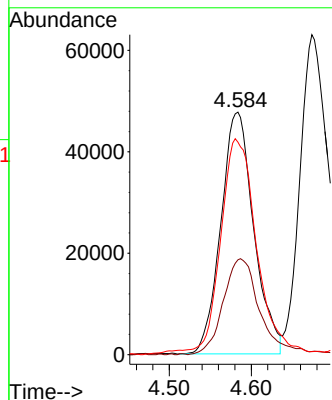
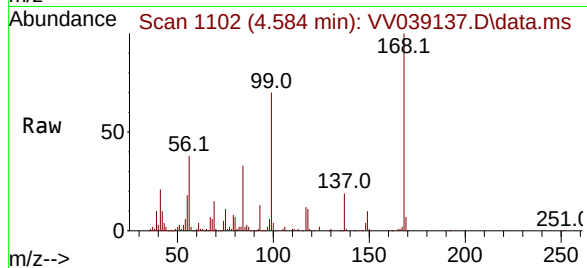
Tgt Ion: 56 Resp: 132996

Ion Ratio Lower Upper

56 100

69 38.9 26.2 39.2

84 86.0 70.3 105.5



#32

1,1,1-Trichloroethane

Concen: 10.966 ug/l

RT: 4.513 min Scan# 1080

Delta R.T. 0.003 min

Lab File: VV039137.D

Acq: 22 Sep 2025 12:26

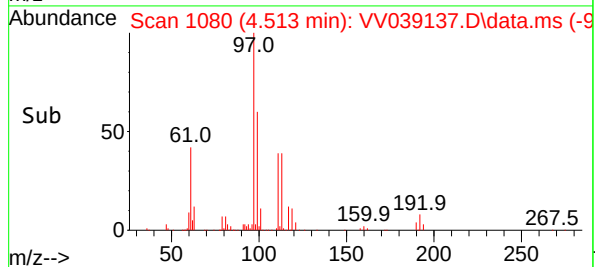
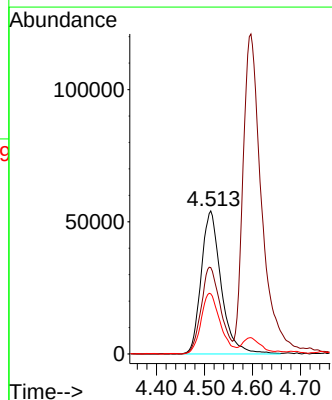
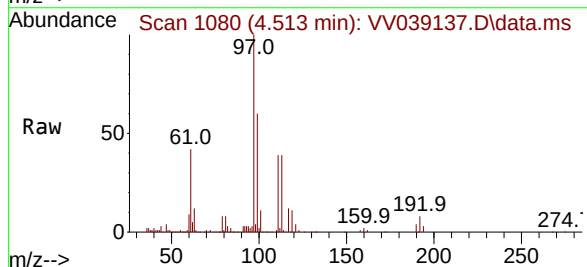
Tgt Ion: 97 Resp: 156733

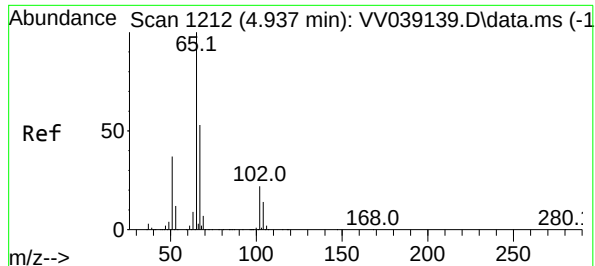
Ion Ratio Lower Upper

97 100

99 58.2 49.6 74.4

61 40.9 34.5 51.7





#33

1,2-Dichloroethane-d4

Concen: 10.688 ug/l

RT: 4.944 min Scan# 11

Delta R.T. 0.006 min

Lab File: VV039137.D

Acq: 22 Sep 2025 12:26

Instrument :

MSVOA_V

ClientSampleId :

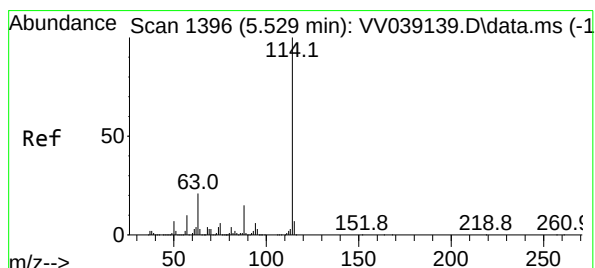
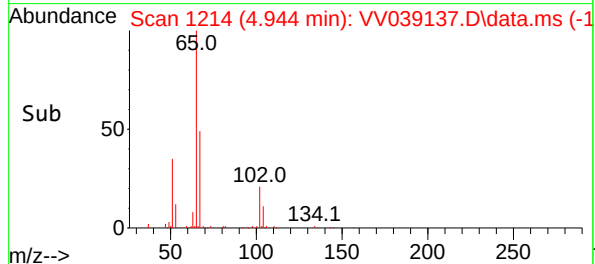
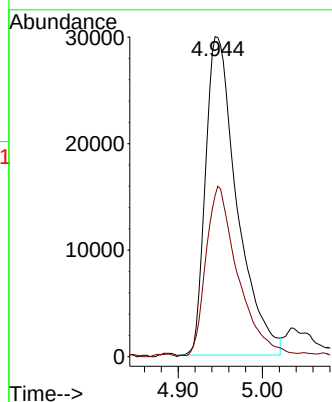
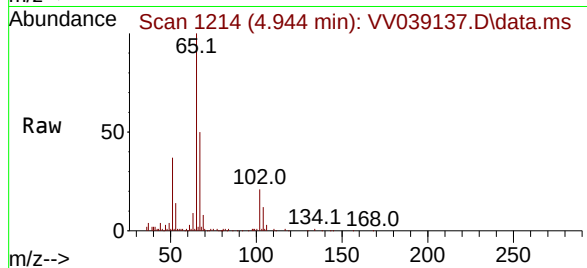
VSTDICC010

Tgt Ion: 65 Resp: 77610

Ion Ratio Lower Upper

65 100

67 54.9 0.0 107.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.529 min Scan# 1396

Delta R.T. 0.000 min

Lab File: VV039137.D

Acq: 22 Sep 2025 12:26

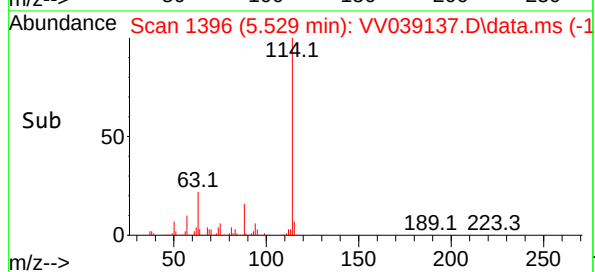
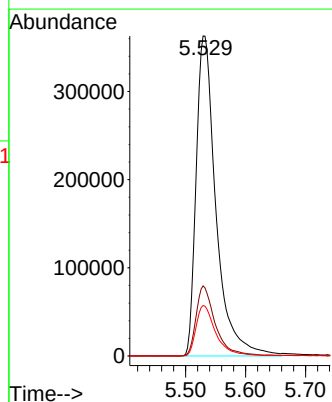
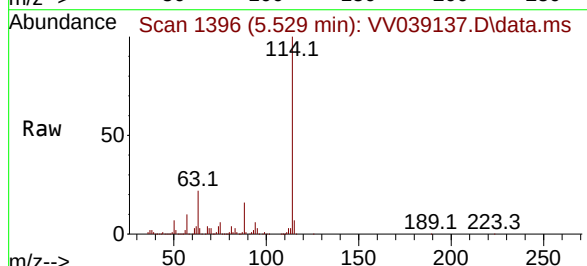
Tgt Ion: 114 Resp: 837272

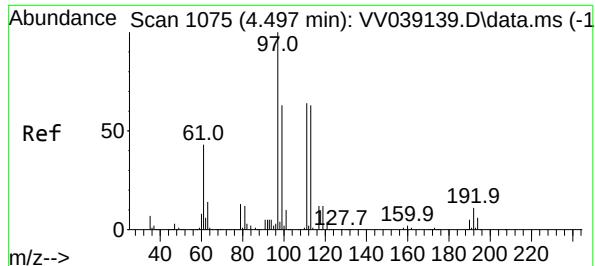
Ion Ratio Lower Upper

114 100

63 21.9 0.0 42.6

88 15.8 0.0 30.8





#35

Dibromofluoromethane

Concen: 10.833 ug/l

RT: 4.503 min Scan# 1107

Delta R.T. 0.006 min

Lab File: VV039137.D

Acq: 22 Sep 2025 12:26

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC010

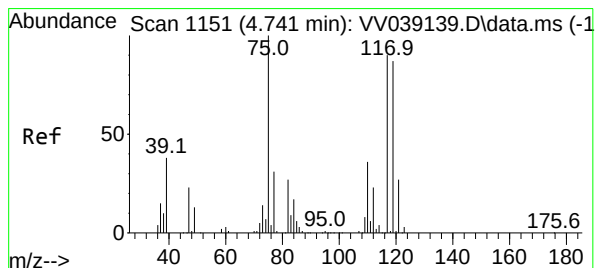
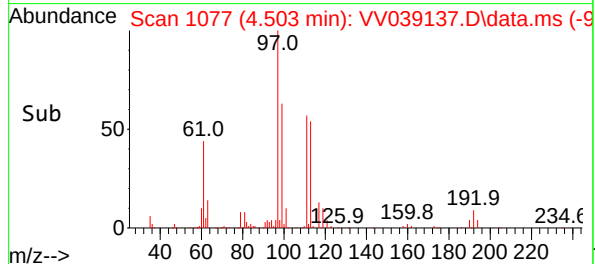
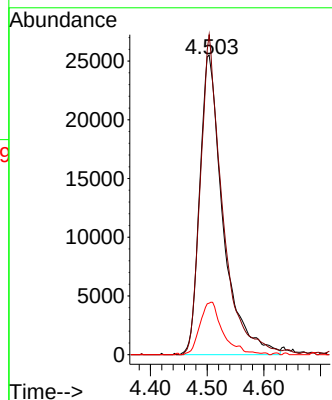
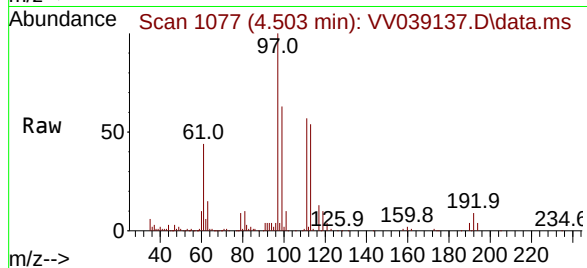
Tgt Ion:113 Resp: 72914

Ion Ratio Lower Upper

113 100

111 100.5 82.4 123.6

192 17.2 13.8 20.8



#36

1,1-Dichloropropene

Concen: 10.187 ug/l

RT: 4.744 min Scan# 1152

Delta R.T. 0.003 min

Lab File: VV039137.D

Acq: 22 Sep 2025 12:26

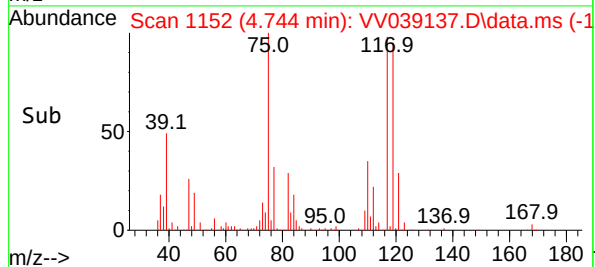
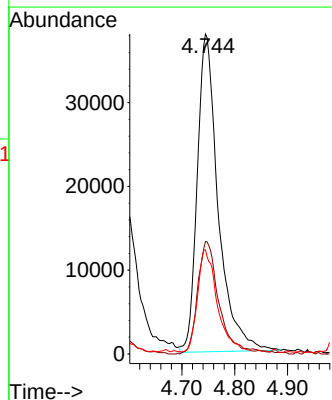
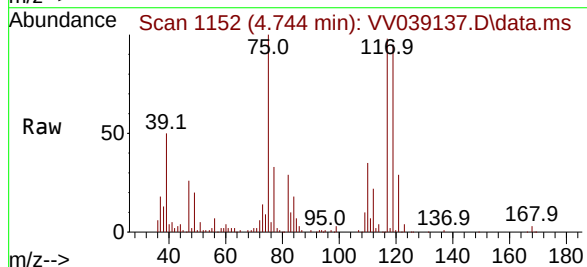
Tgt Ion: 75 Resp: 104420

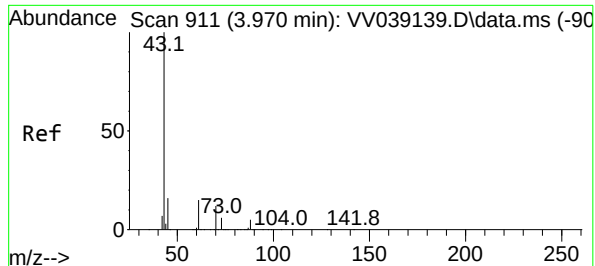
Ion Ratio Lower Upper

75 100

110 35.4 18.1 54.1

77 30.2 24.8 37.2





#37

Ethyl Acetate

Concen: 9.520 ug/l

RT: 3.982 min Scan# 911

Delta R.T. 0.012 min

Lab File: VV039137.D

Acq: 22 Sep 2025 12:26

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC010

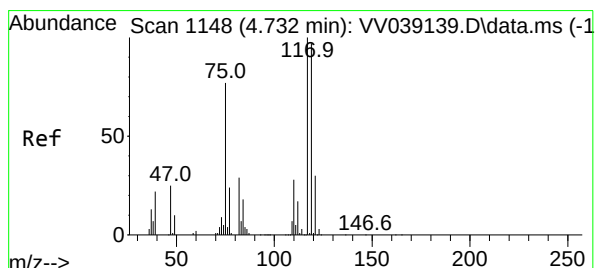
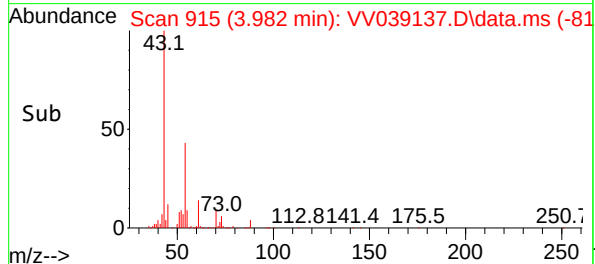
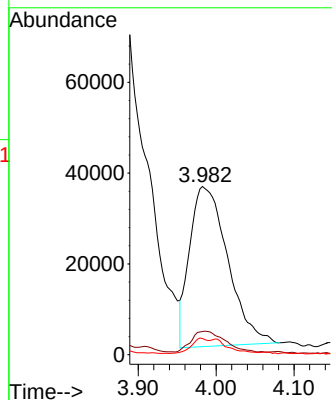
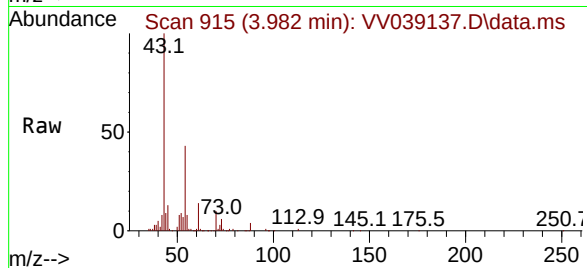
Tgt Ion: 43 Resp: 119710

Ion Ratio Lower Upper

43 100

61 11.2 10.3 15.5

70 4.3 8.0 12.0#



#38

Carbon Tetrachloride

Concen: 10.069 ug/l

RT: 4.732 min Scan# 1148

Delta R.T. -0.000 min

Lab File: VV039137.D

Acq: 22 Sep 2025 12:26

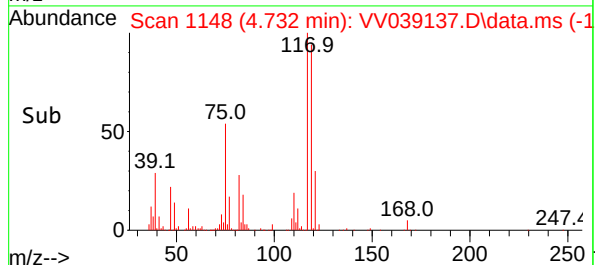
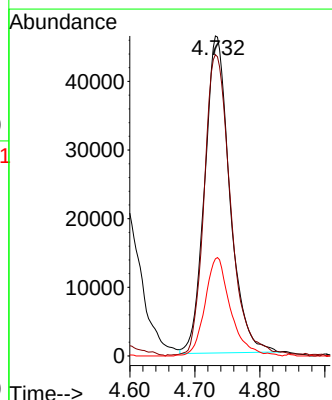
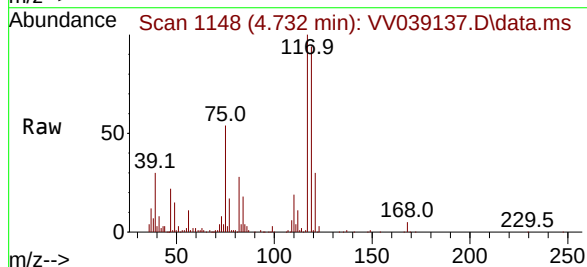
Tgt Ion: 117 Resp: 124321

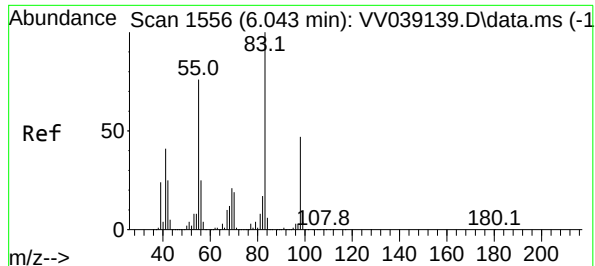
Ion Ratio Lower Upper

117 100

119 94.7 77.2 115.8

121 30.5 24.2 36.2





#39

Methylcyclohexane

Concen: 9.549 ug/l

RT: 6.043 min Scan# 11

Delta R.T. 0.000 min

Lab File: VV039137.D

Acq: 22 Sep 2025 12:26

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC010

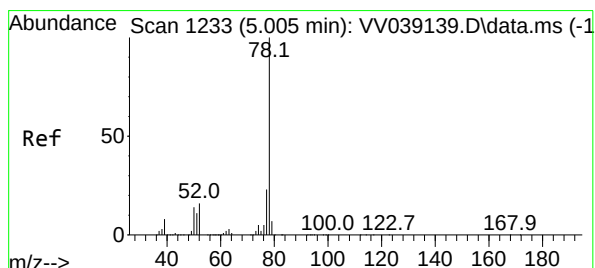
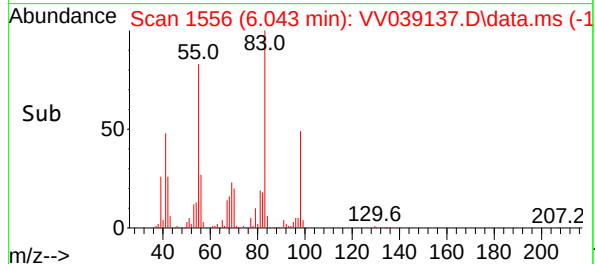
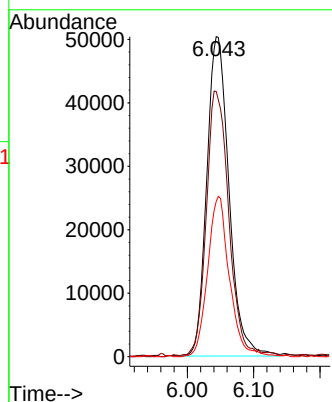
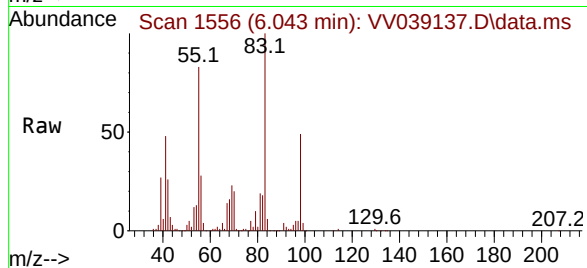
Tgt Ion: 83 Resp: 117354

Ion Ratio Lower Upper

83 100

55 82.7 60.5 90.7

98 48.6 37.8 56.6



#40

Benzene

Concen: 10.493 ug/l

RT: 5.008 min Scan# 1234

Delta R.T. 0.003 min

Lab File: VV039137.D

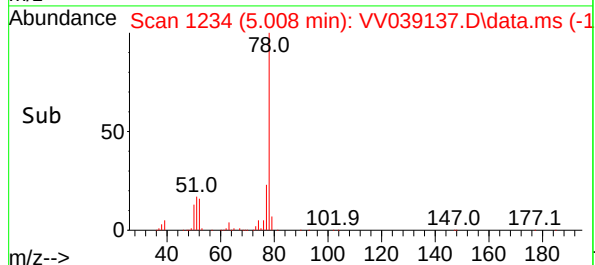
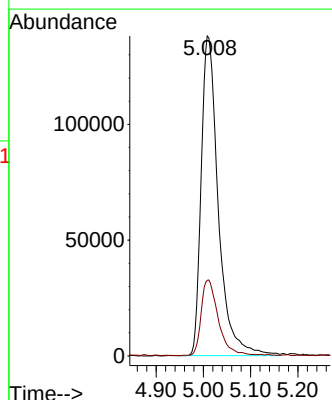
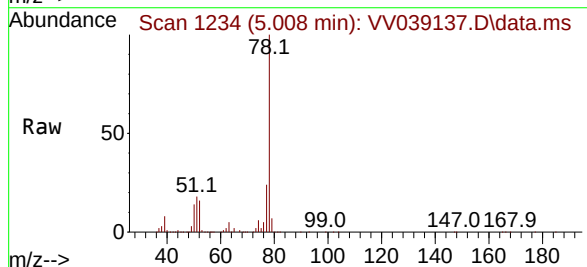
Acq: 22 Sep 2025 12:26

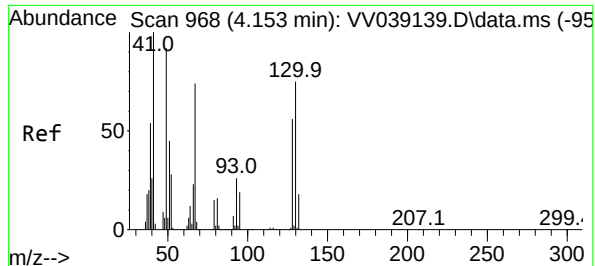
Tgt Ion: 78 Resp: 347728

Ion Ratio Lower Upper

78 100

77 23.5 18.7 28.1

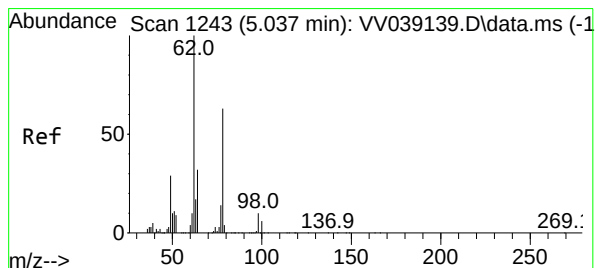
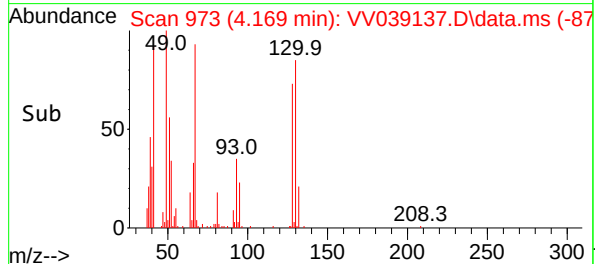
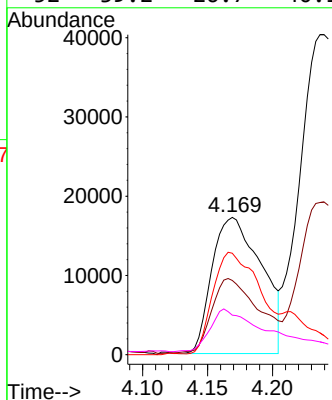
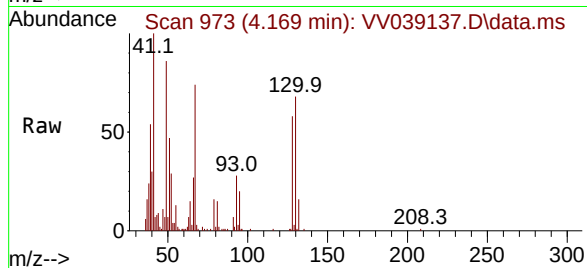




#41
Methacrylonitrile
Concen: 9.764 ug/l
RT: 4.169 min Scan# 91
Delta R.T. 0.016 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

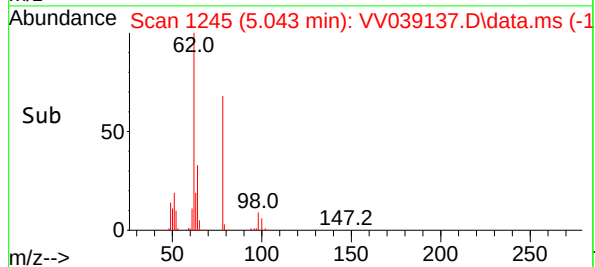
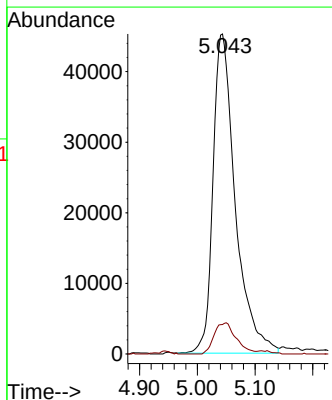
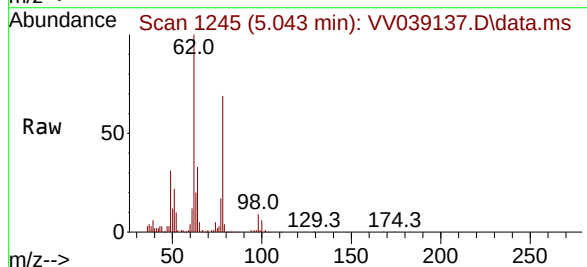
Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

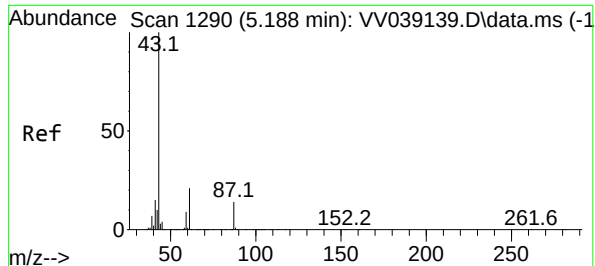
Tgt Ion: 41 Resp: 45674
Ion Ratio Lower Upper
41 100
39 53.9 42.2 63.2
67 70.9 67.9 101.9
52 39.2 26.7 40.1



#42
1,2-Dichloroethane
Concen: 10.458 ug/l
RT: 5.043 min Scan# 1245
Delta R.T. 0.006 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 62 Resp: 121437
Ion Ratio Lower Upper
62 100
98 9.7 0.0 19.2





#43

Isopropyl Acetate

Concen: 9.980 ug/l

RT: 5.195 min Scan# 1

Delta R.T. 0.006 min

Lab File: VV039137.D

Acq: 22 Sep 2025 12:26

Instrument :

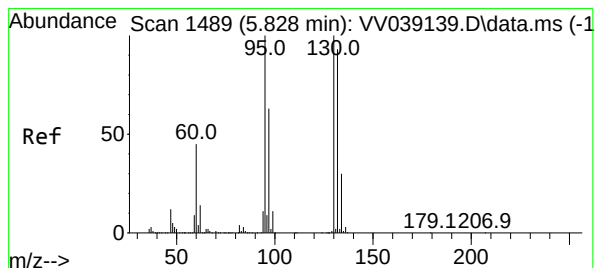
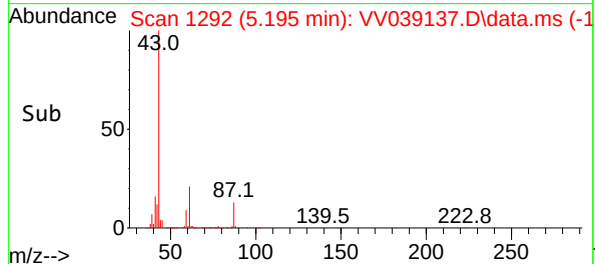
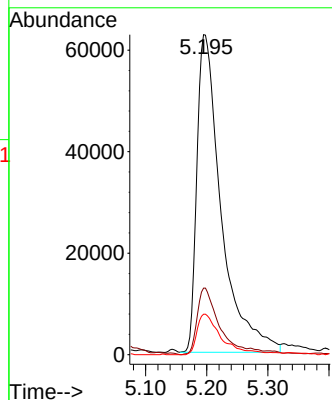
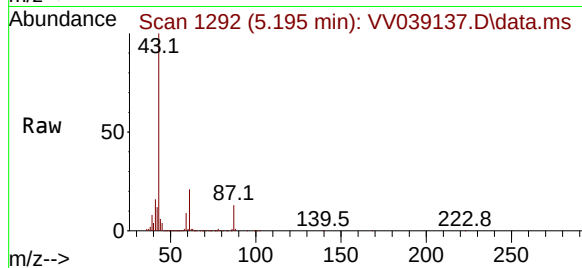
MSVOA_V

ClientSampleId :

VSTDIC010

Tgt Ion: 43 Resp: 172880

Ion	Ratio	Lower	Upper
43	100		
61	18.5	15.9	23.9
87	12.7	11.0	16.6



#44

Trichloroethene

Concen: 10.324 ug/l

RT: 5.834 min Scan# 1491

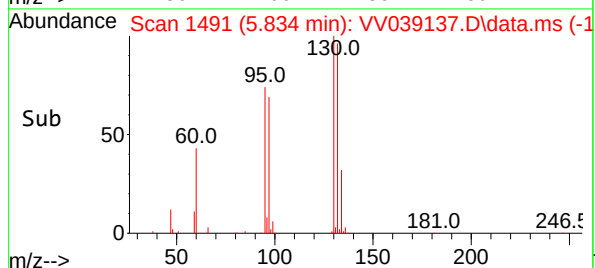
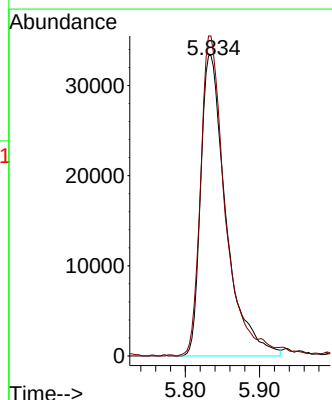
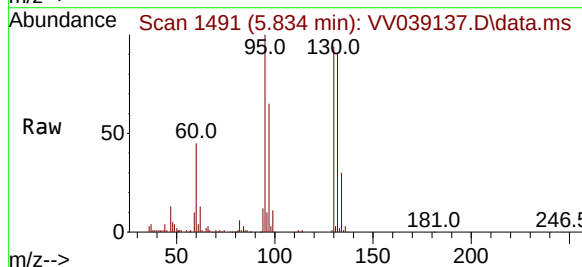
Delta R.T. 0.006 min

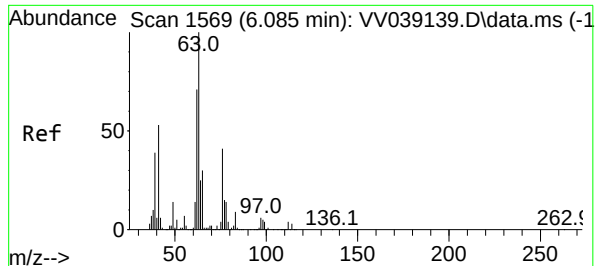
Lab File: VV039137.D

Acq: 22 Sep 2025 12:26

Tgt Ion: 130 Resp: 78943

Ion	Ratio	Lower	Upper
130	100		
95	106.2	0.0	199.2





#45

1,2-Dichloropropane

Concen: 10.355 ug/l

RT: 6.092 min Scan# 1571

Delta R.T. 0.006 min

Lab File: VV039137.D

Acq: 22 Sep 2025 12:26

Instrument :

MSVOA_V

ClientSampleId :

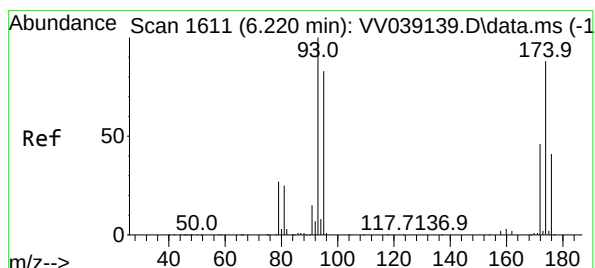
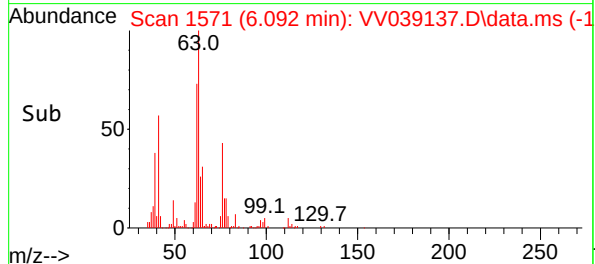
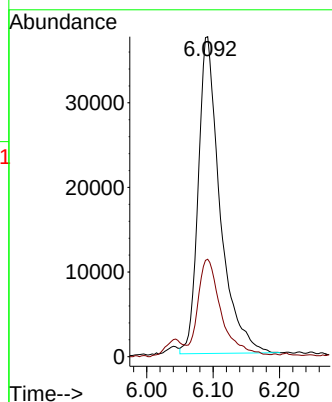
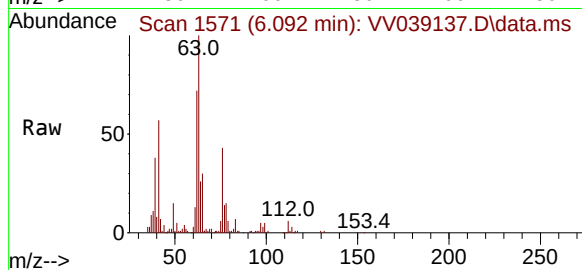
VSTDIC010

Tgt Ion: 63 Resp: 85295

Ion Ratio Lower Upper

63 100

65 30.3 23.7 35.5



#46

Dibromomethane

Concen: 10.424 ug/l

RT: 6.230 min Scan# 1614

Delta R.T. 0.010 min

Lab File: VV039137.D

Acq: 22 Sep 2025 12:26

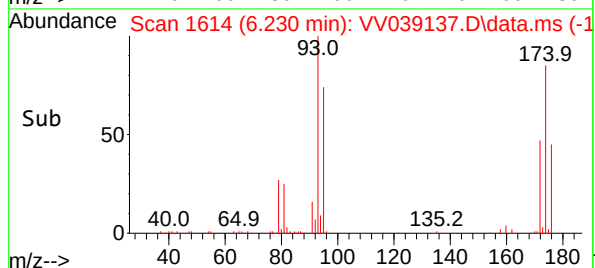
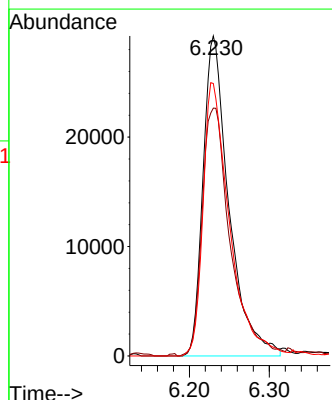
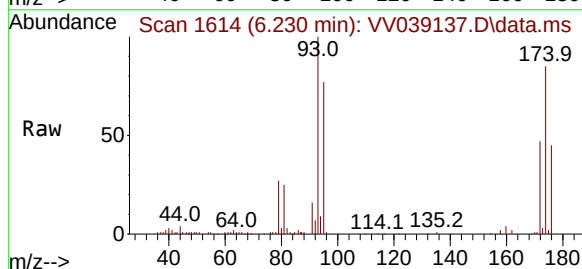
Tgt Ion: 93 Resp: 65717

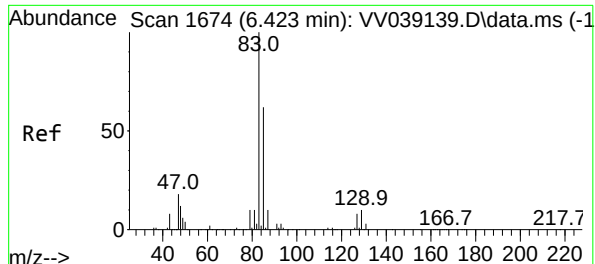
Ion Ratio Lower Upper

93 100

95 84.5 65.5 98.3

174 87.7 69.0 103.4





#47

Bromodichloromethane

Concen: 10.685 ug/l

RT: 6.426 min Scan# 1

Delta R.T. 0.003 min

Lab File: VV039137.D

Acq: 22 Sep 2025 12:26

Instrument :

MSVOA_V

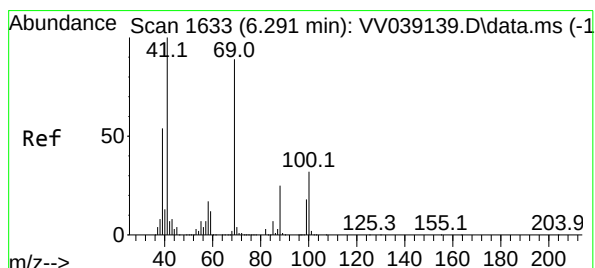
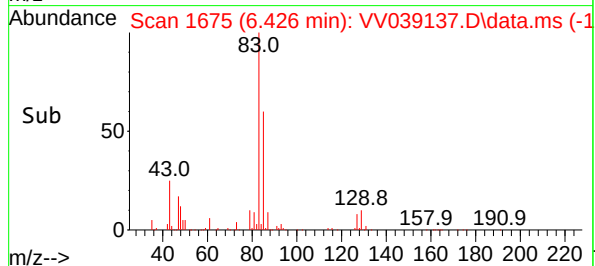
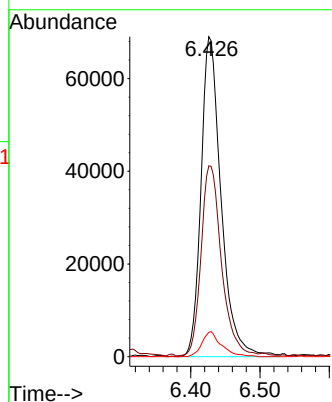
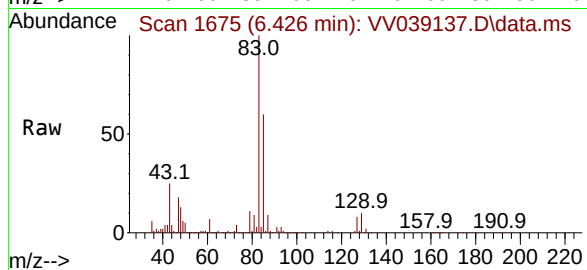
ClientSampleId :

VSTDIC010

Tgt Ion: 83 Resp: 139261

Ion Ratio Lower Upper

83	100		
85	59.3	49.7	74.5
127	7.6	6.6	9.8



#48

Methyl methacrylate

Concen: 8.639 ug/l

RT: 6.304 min Scan# 1637

Delta R.T. 0.013 min

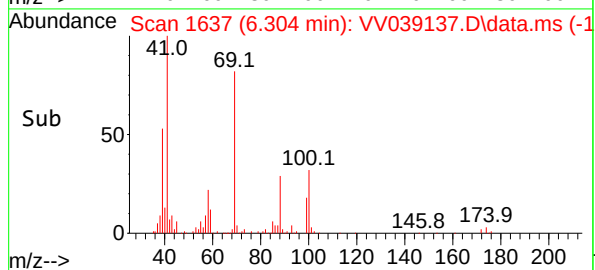
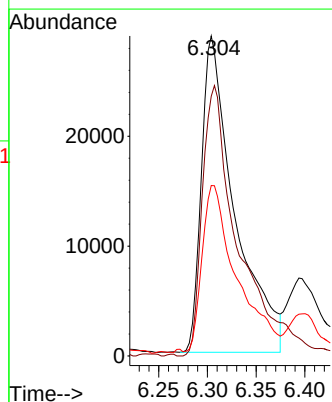
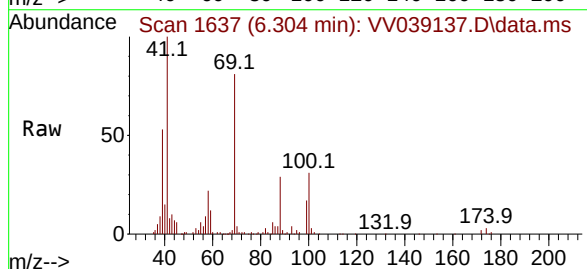
Lab File: VV039137.D

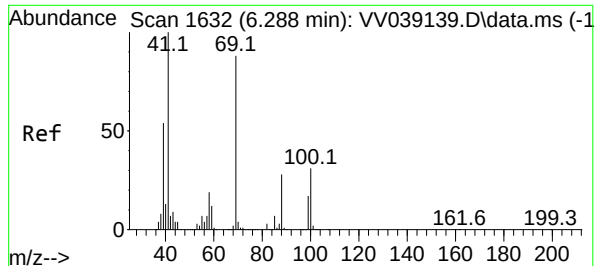
Acq: 22 Sep 2025 12:26

Tgt Ion: 41 Resp: 68465

Ion Ratio Lower Upper

41	100		
69	93.4	72.4	108.6
39	54.3	42.5	63.7





#49

1,4-Dioxane

Concen: 190.260 ug/l

RT: 6.297 min Scan# 1

Delta R.T. 0.010 min

Lab File: VV039137.D

Acq: 22 Sep 2025 12:26

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC010

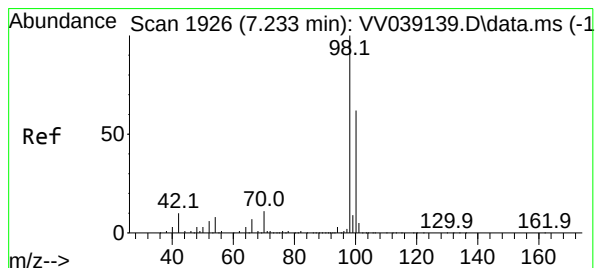
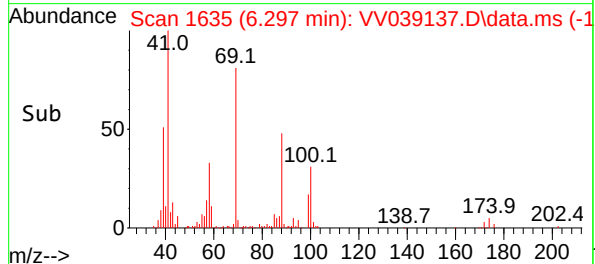
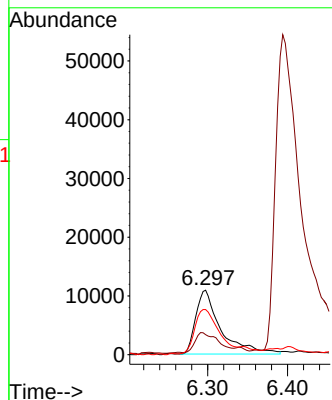
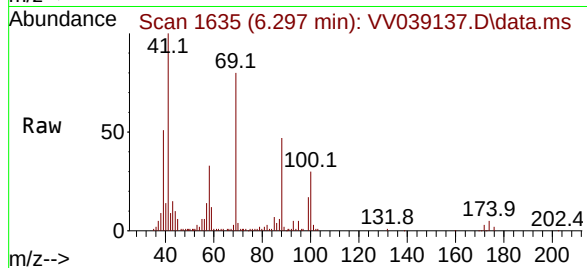
Tgt Ion: 88 Resp: 23699

Ion Ratio Lower Upper

88 100

43 31.1 25.1 37.7

58 65.5 53.6 80.4



#50

Toluene-d8

Concen: 9.879 ug/l

RT: 7.240 min Scan# 1928

Delta R.T. 0.006 min

Lab File: VV039137.D

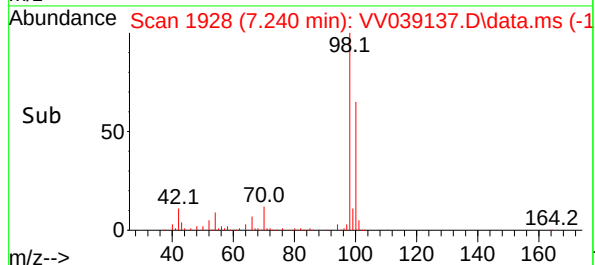
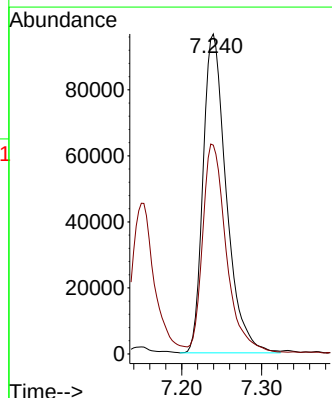
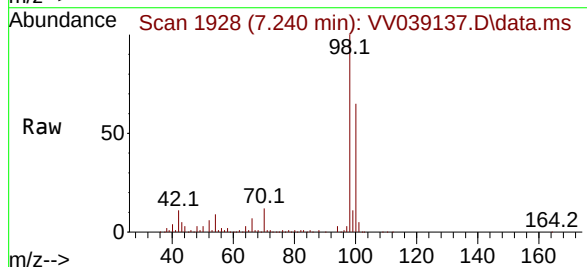
Acq: 22 Sep 2025 12:26

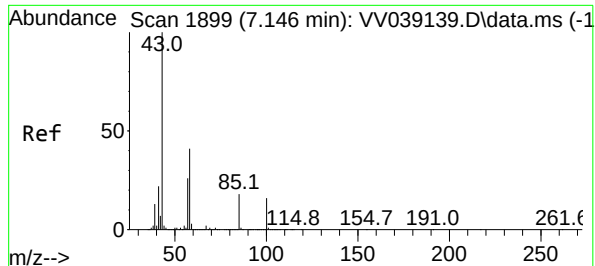
Tgt Ion: 98 Resp: 195300

Ion Ratio Lower Upper

98 100

100 66.5 52.2 78.2





#51

4-Methyl-2-Pentanone

Concen: 54.051 ug/l

RT: 7.150 min Scan# 1900

Delta R.T. 0.003 min

Lab File: VV039137.D

Acq: 22 Sep 2025 12:26

Instrument :

MSVOA_V

ClientSampleId :

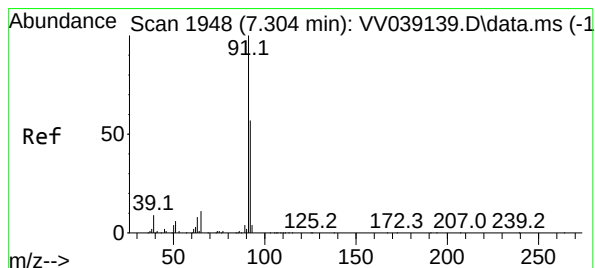
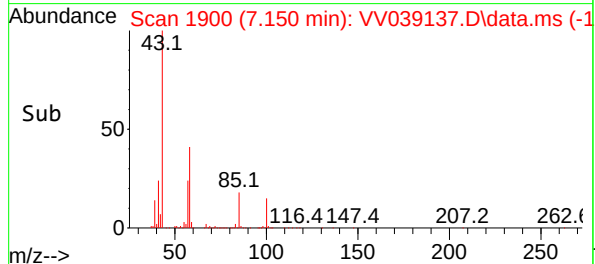
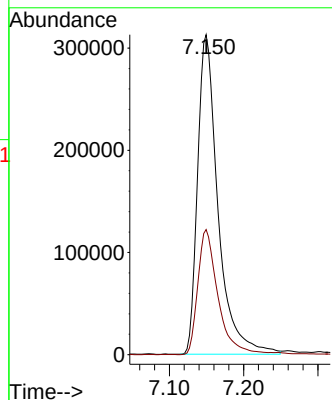
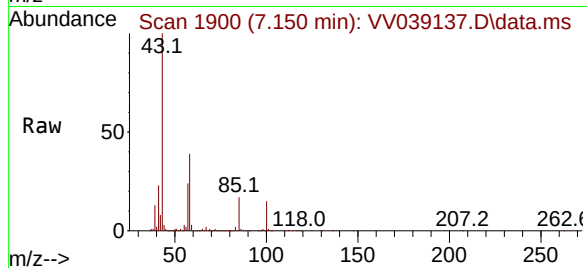
VSTDIC010

Tgt Ion: 43 Resp: 598702

Ion Ratio Lower Upper

43 100

58 38.7 32.3 48.5



#52

Toluene

Concen: 10.552 ug/l

RT: 7.310 min Scan# 1950

Delta R.T. 0.006 min

Lab File: VV039137.D

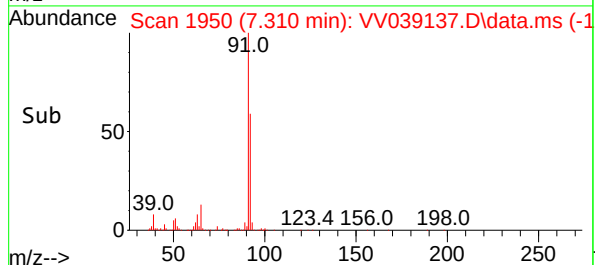
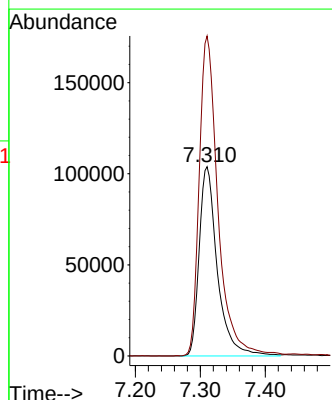
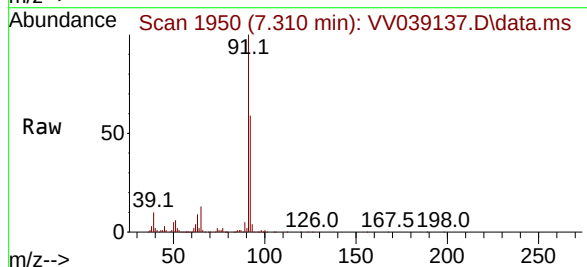
Acq: 22 Sep 2025 12:26

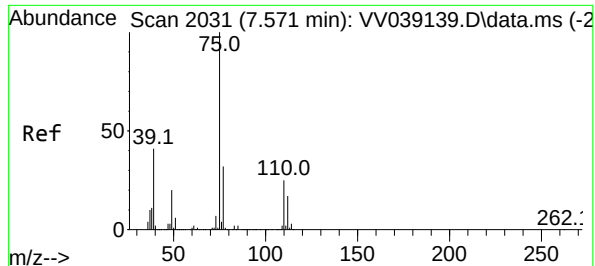
Tgt Ion: 92 Resp: 202741

Ion Ratio Lower Upper

92 100

91 174.4 139.2 208.8





#53

t-1,3-Dichloropropene

Concen: 10.329 ug/l

RT: 7.580 min Scan# 2031

Delta R.T. 0.009 min

Lab File: VV039137.D

Acq: 22 Sep 2025 12:26

Instrument :

MSVOA_V

ClientSampleId :

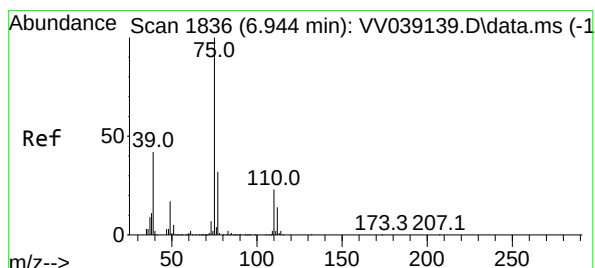
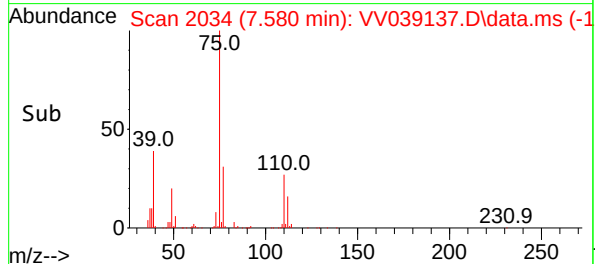
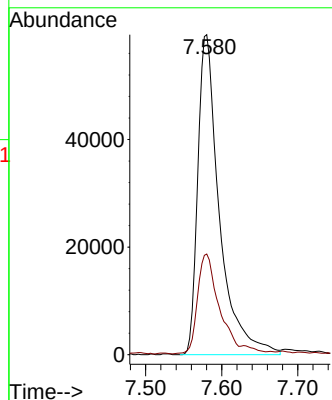
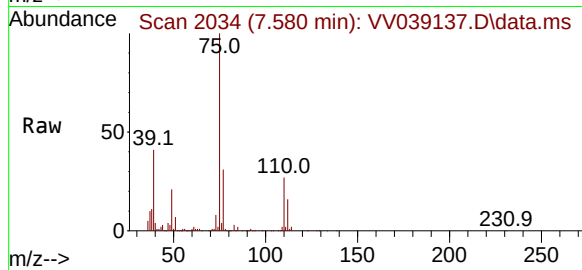
VSTDIC010

Tgt Ion: 75 Resp: 117314

Ion Ratio Lower Upper

75 100

77 31.0 25.9 38.9



#54

cis-1,3-Dichloropropene

Concen: 10.729 ug/l

RT: 6.950 min Scan# 1838

Delta R.T. 0.006 min

Lab File: VV039137.D

Acq: 22 Sep 2025 12:26

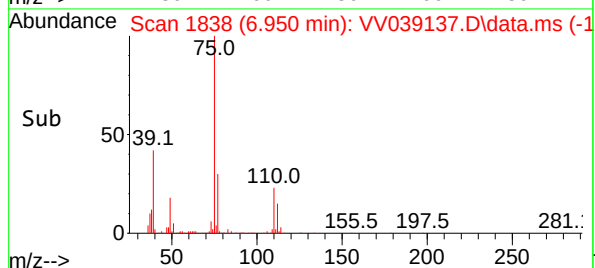
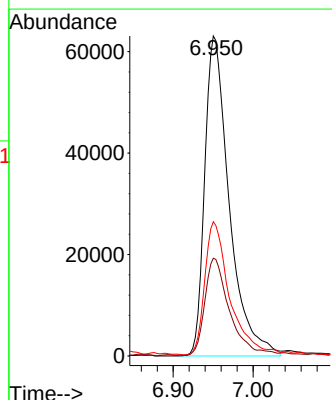
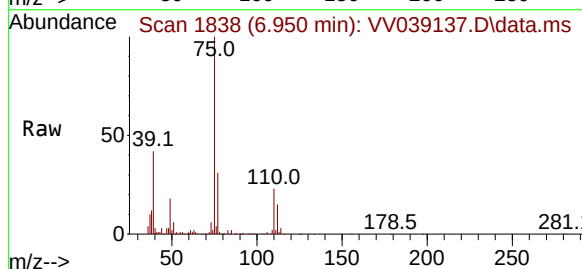
Tgt Ion: 75 Resp: 134529

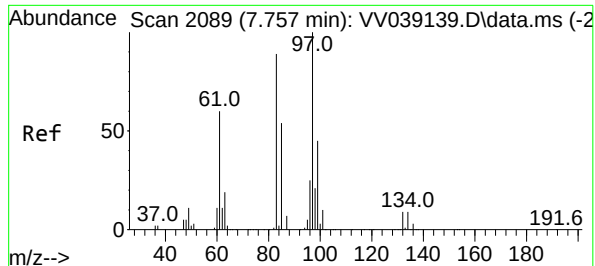
Ion Ratio Lower Upper

75 100

77 30.3 25.5 38.3

39 41.5 33.8 50.6





#55

1,1,2-Trichloroethane

Concen: 10.376 ug/l

RT: 7.764 min Scan# 2089

Delta R.T. 0.007 min

Lab File: VV039137.D

Acq: 22 Sep 2025 12:26

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC010

Tgt Ion: 97 Resp: 89390

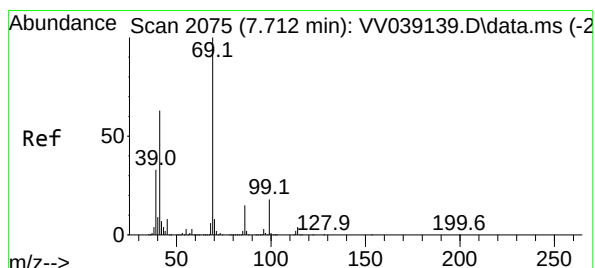
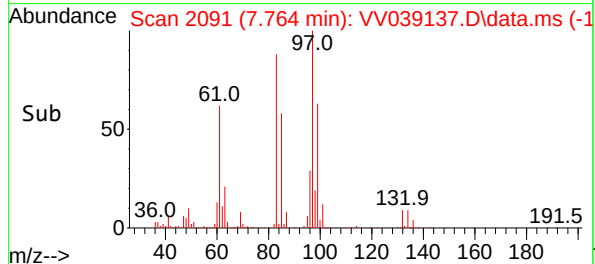
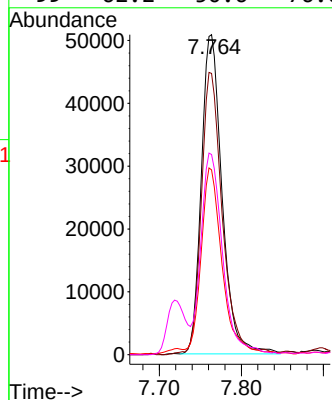
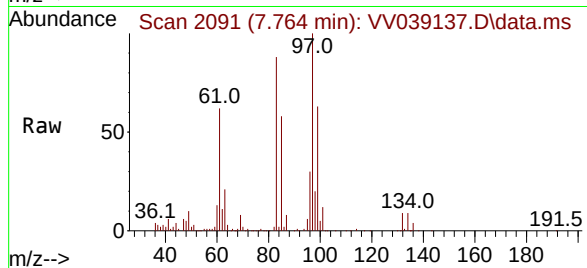
Ion Ratio Lower Upper

97 100

83 87.4 71.1 106.7

85 57.3 44.6 67.0

99 62.2 50.6 76.0



#56

Ethyl methacrylate

Concen: 9.313 ug/l

RT: 7.719 min Scan# 2077

Delta R.T. 0.007 min

Lab File: VV039137.D

Acq: 22 Sep 2025 12:26

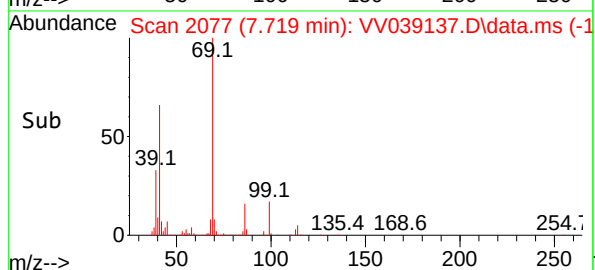
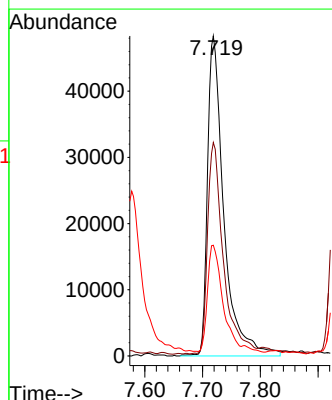
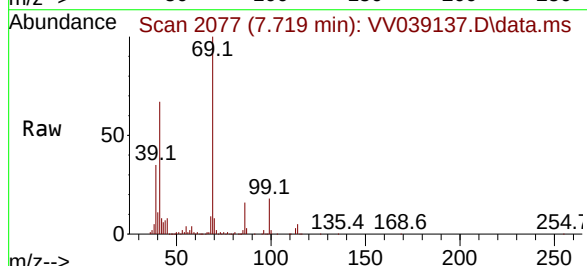
Tgt Ion: 69 Resp: 95279

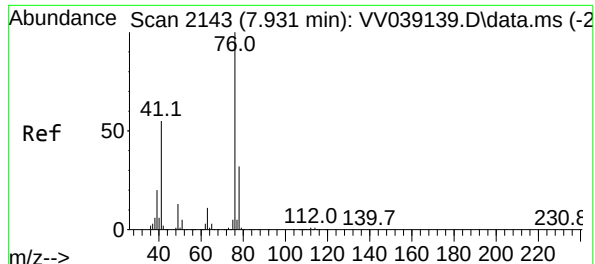
Ion Ratio Lower Upper

69 100

41 63.5 50.7 76.1

39 30.5 26.0 39.0





#57

1,3-Dichloropropane

Concen: 10.607 ug/l

RT: 7.934 min Scan# 2143

Delta R.T. 0.003 min

Lab File: VV039137.D

Acq: 22 Sep 2025 12:26

Instrument :

MSVOA_V

ClientSampleId :

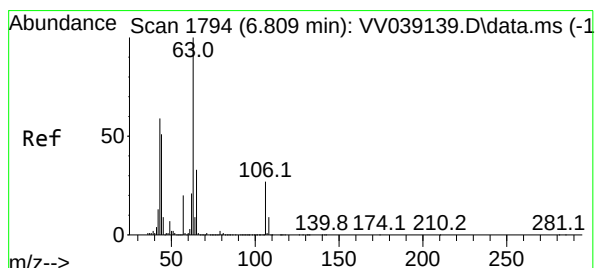
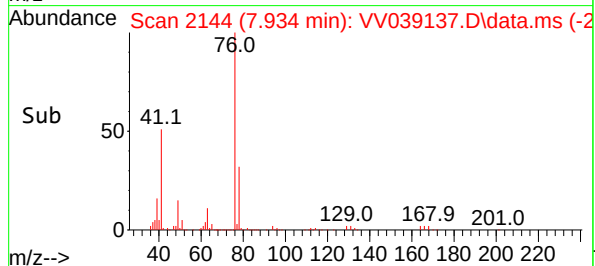
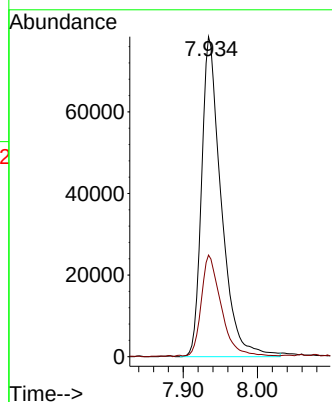
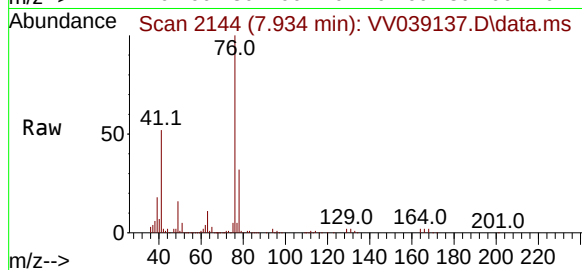
VSTDICC010

Tgt Ion: 76 Resp: 144218

Ion Ratio Lower Upper

76 100

78 31.3 26.1 39.1



#58

2-Chloroethyl Vinyl ether

Concen: 46.148 ug/l

RT: 6.815 min Scan# 1796

Delta R.T. 0.006 min

Lab File: VV039137.D

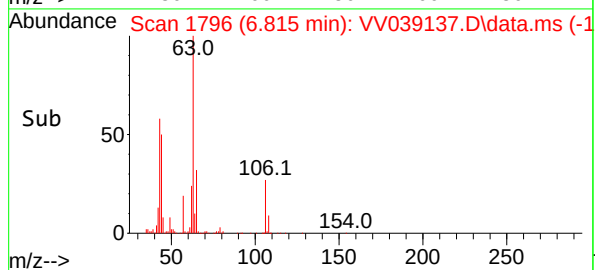
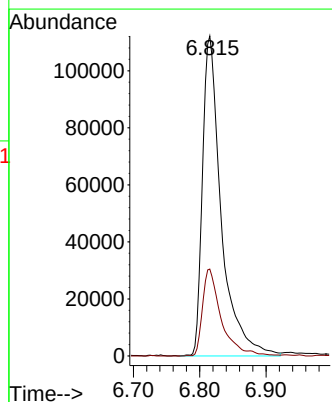
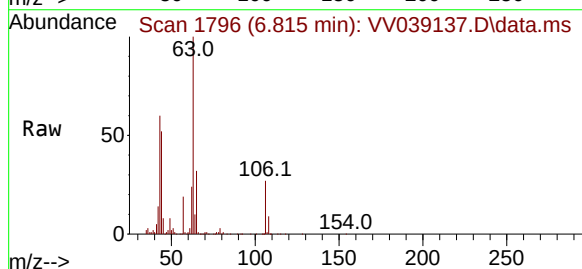
Acq: 22 Sep 2025 12:26

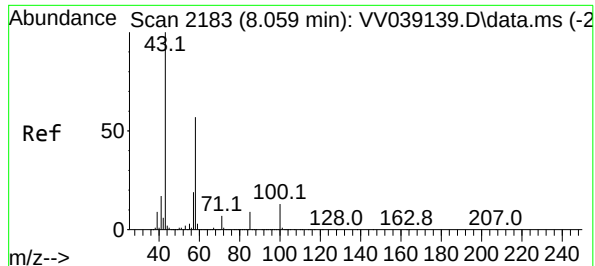
Tgt Ion: 63 Resp: 220693

Ion Ratio Lower Upper

63 100

106 27.2 22.1 33.1





#59

2-Hexanone

Concen: 49.020 ug/l

RT: 8.066 min Scan# 2185

Delta R.T. 0.007 min

Lab File: VV039137.D

Acq: 22 Sep 2025 12:26

Instrument :

MSVOA_V

ClientSampleId :

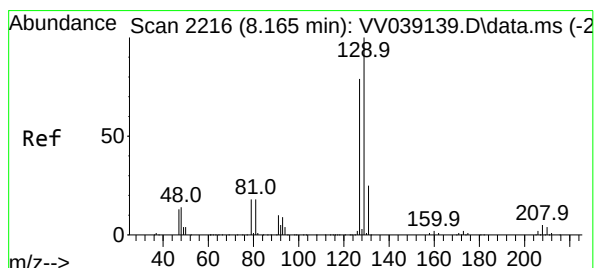
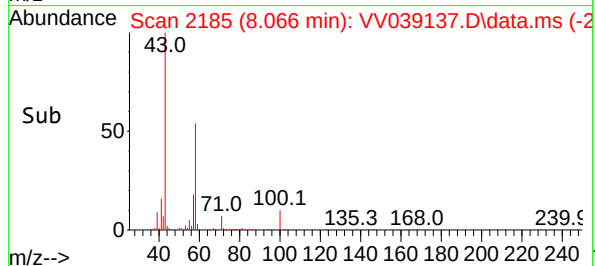
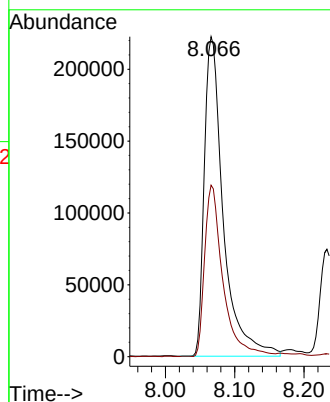
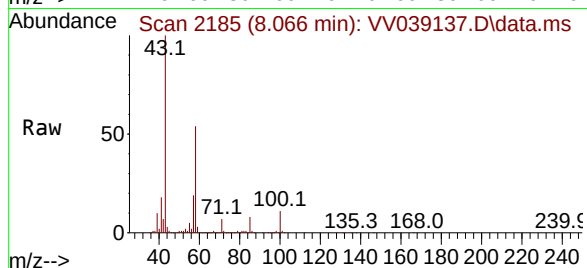
VSTDICC010

Tgt Ion: 43 Resp: 422703

Ion Ratio Lower Upper

43 100

58 51.7 28.3 85.0



#60

Dibromochloromethane

Concen: 10.313 ug/l

RT: 8.169 min Scan# 2217

Delta R.T. 0.003 min

Lab File: VV039137.D

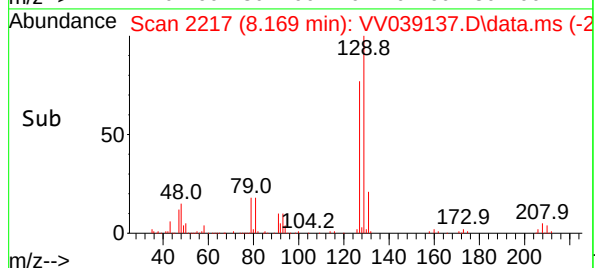
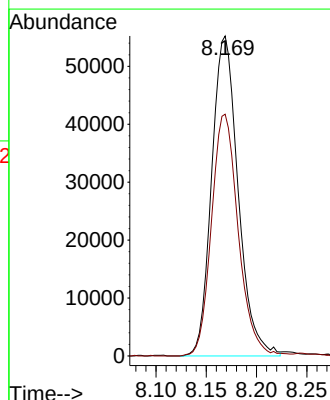
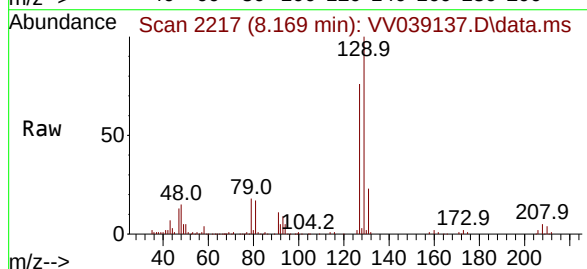
Acq: 22 Sep 2025 12:26

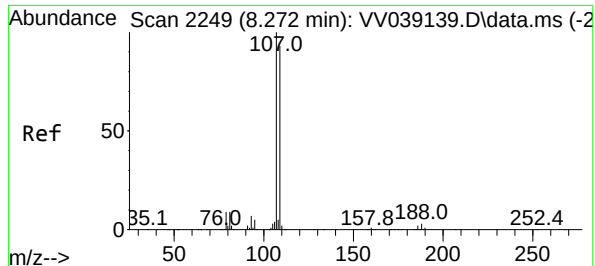
Tgt Ion: 129 Resp: 101236

Ion Ratio Lower Upper

129 100

127 76.4 39.3 117.9





#61

1,2-Dibromoethane

Concen: 10.576 ug/l

RT: 8.275 min Scan# 21

Delta R.T. 0.003 min

Lab File: VV039137.D

Acq: 22 Sep 2025 12:26

Instrument :

MSVOA_V

ClientSampleId :

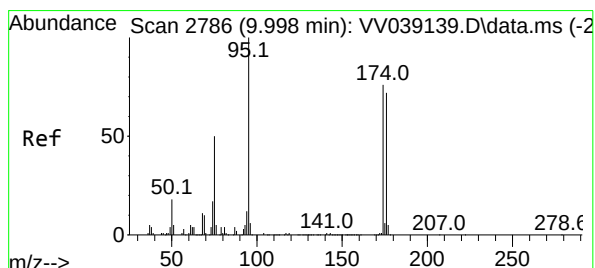
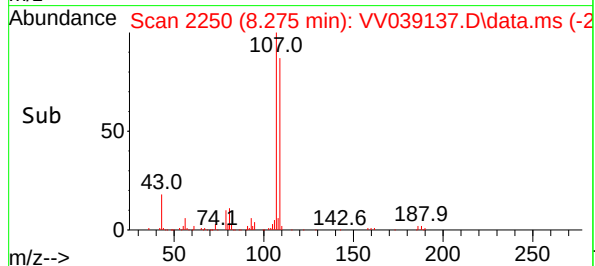
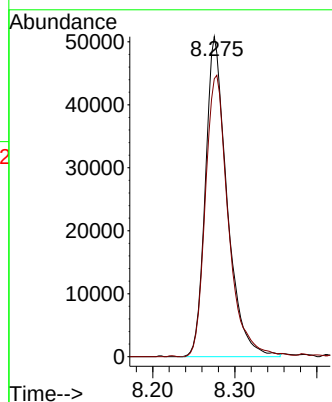
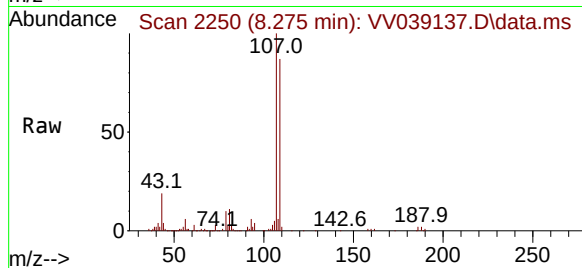
VSTDIC010

Tgt Ion:107 Resp: 93182

Ion Ratio Lower Upper

107 100

109 93.6 74.6 112.0



#62

4-Bromofluorobenzene

Concen: 9.902 ug/l

RT: 10.005 min Scan# 2788

Delta R.T. 0.006 min

Lab File: VV039137.D

Acq: 22 Sep 2025 12:26

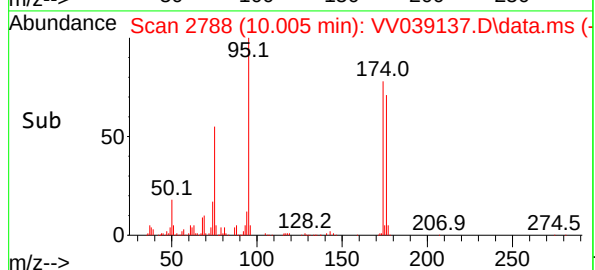
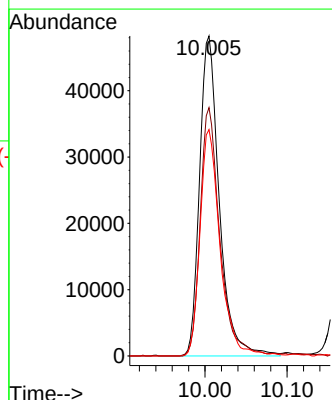
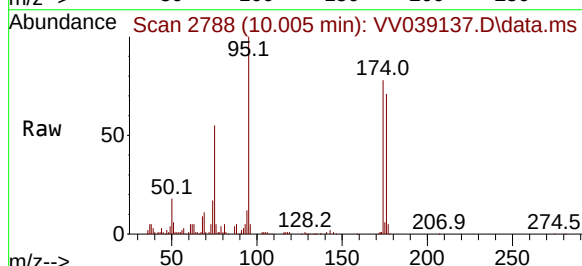
Tgt Ion: 95 Resp: 80587

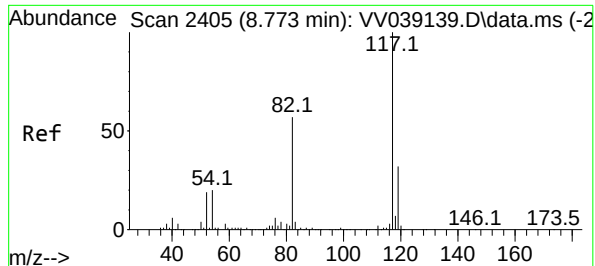
Ion Ratio Lower Upper

95 100

174 77.1 0.0 150.4

176 71.7 0.0 144.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 8.773 min Scan# 2405

Delta R.T. 0.000 min

Lab File: VV039137.D

Acq: 22 Sep 2025 12:26

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC010

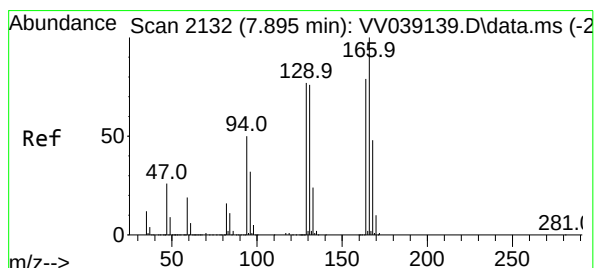
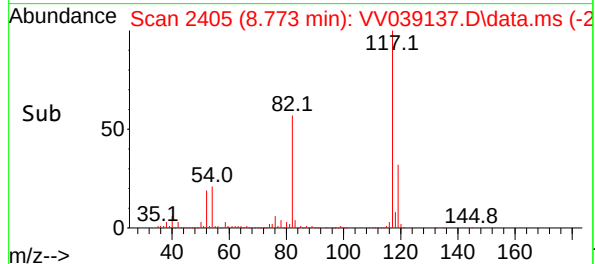
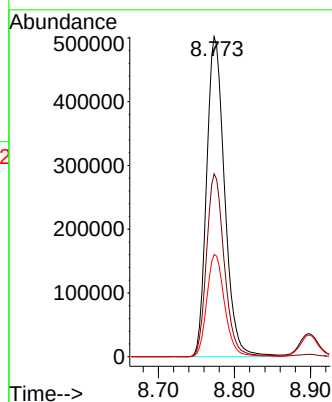
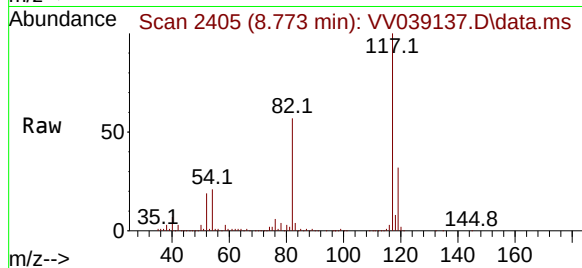
Tgt Ion:117 Resp: 824583

Ion Ratio Lower Upper

117 100

82 57.1 45.4 68.2

119 31.9 25.6 38.4



#64

Tetrachloroethene

Concen: 10.397 ug/l

RT: 7.899 min Scan# 2133

Delta R.T. 0.003 min

Lab File: VV039137.D

Acq: 22 Sep 2025 12:26

Tgt Ion:164 Resp: 71811

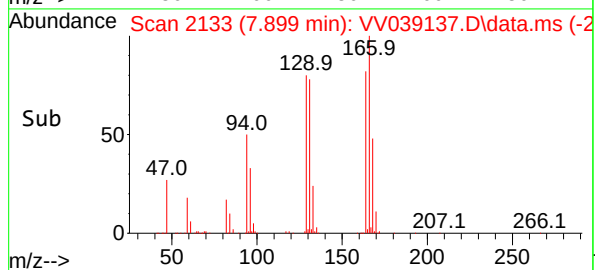
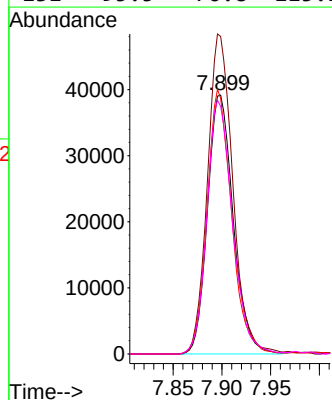
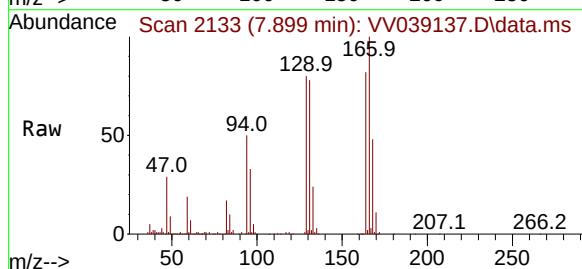
Ion Ratio Lower Upper

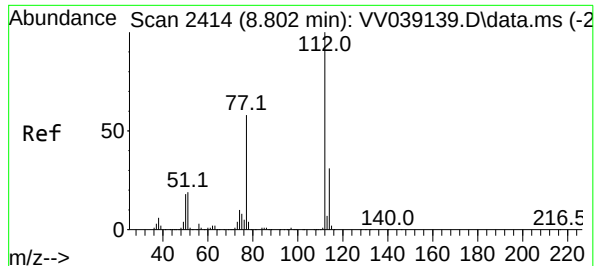
164 100

166 122.7 101.6 152.4

129 98.7 78.5 117.7

131 95.5 76.8 115.2





#65

Chlorobenzene

Concen: 10.072 ug/l

RT: 8.805 min Scan# 2414

Delta R.T. 0.003 min

Lab File: VV039137.D

Acq: 22 Sep 2025 12:26

Instrument :

MSVOA_V

ClientSampleId :

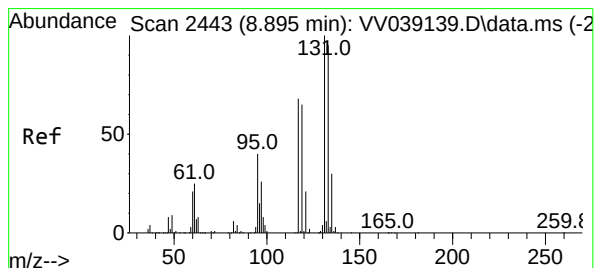
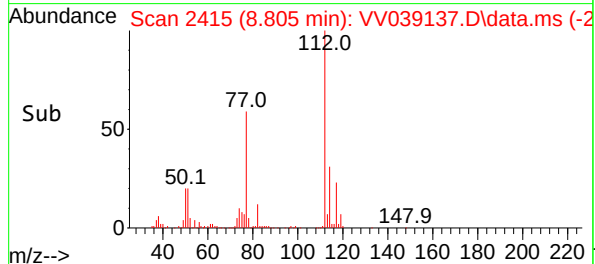
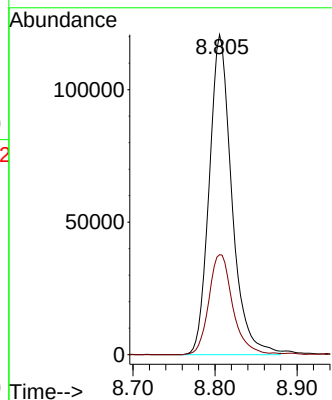
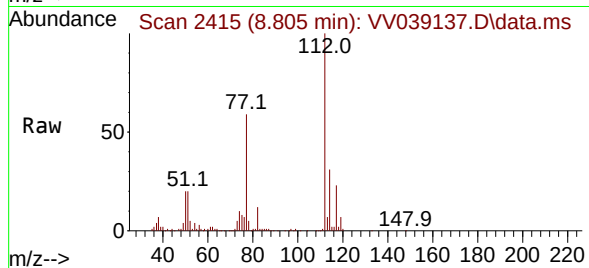
VSTDIC010

Tgt Ion:112 Resp: 231329

Ion Ratio Lower Upper

112 100

114 31.3 24.6 37.0



#66

1,1,1,2-Tetrachloroethane

Concen: 10.324 ug/l

RT: 8.899 min Scan# 2444

Delta R.T. 0.003 min

Lab File: VV039137.D

Acq: 22 Sep 2025 12:26

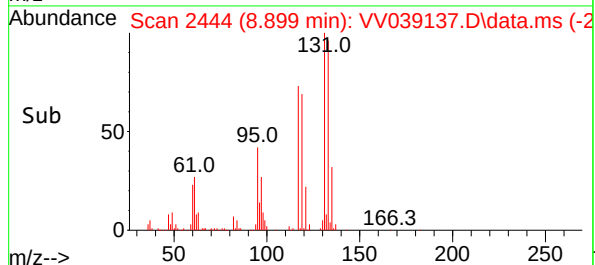
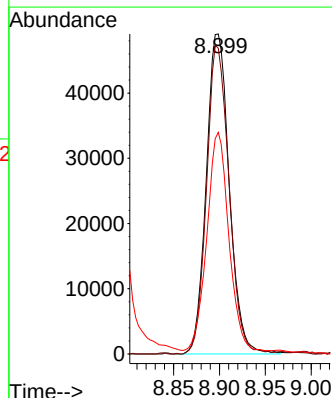
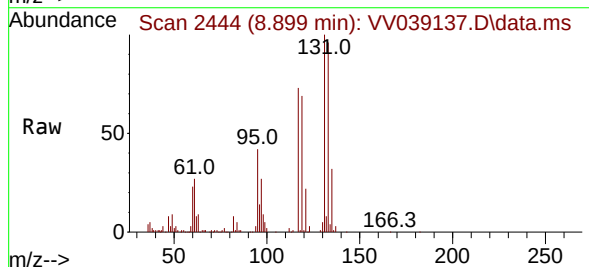
Tgt Ion:131 Resp: 85678

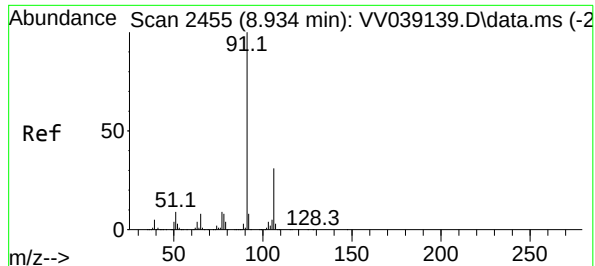
Ion Ratio Lower Upper

131 100

133 94.3 47.3 141.8

119 65.4 33.3 99.8





#67

Ethyl Benzene

Concen: 9.618 ug/l

RT: 8.937 min Scan# 2455

Delta R.T. 0.003 min

Lab File: VV039137.D

Acq: 22 Sep 2025 12:26

Instrument :

MSVOA_V

ClientSampleId :

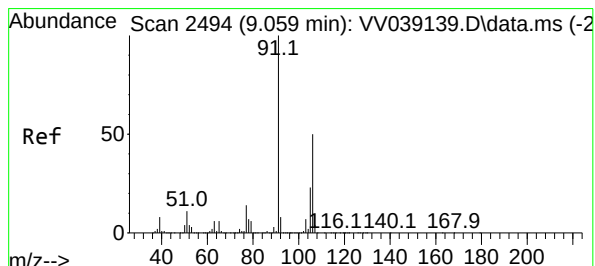
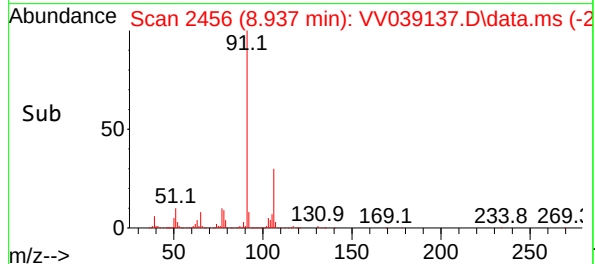
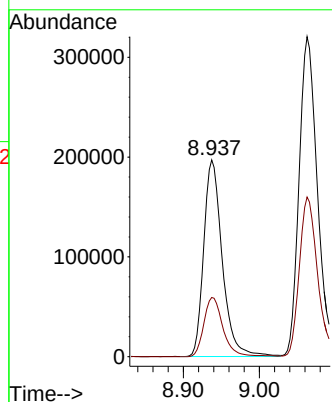
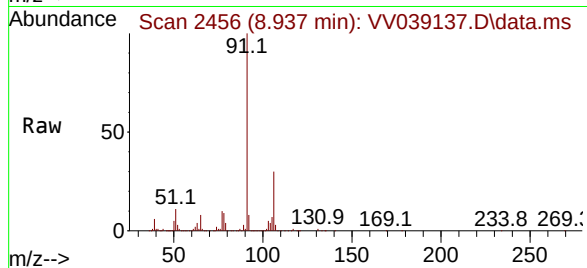
VSTDIC010

Tgt Ion: 91 Resp: 334394

Ion Ratio Lower Upper

91 100

106 30.1 24.6 37.0



#68

m/p-Xylenes

Concen: 20.155 ug/l

RT: 9.063 min Scan# 2495

Delta R.T. 0.004 min

Lab File: VV039137.D

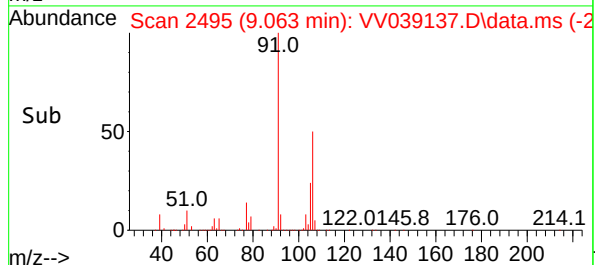
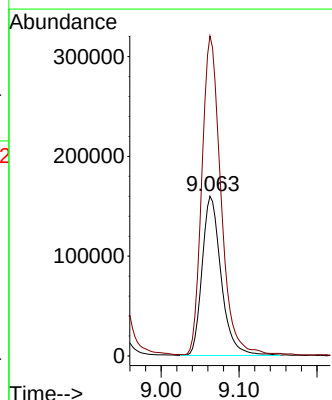
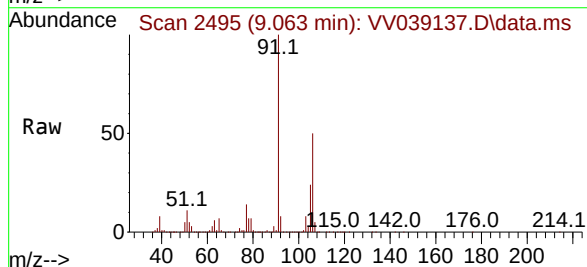
Acq: 22 Sep 2025 12:26

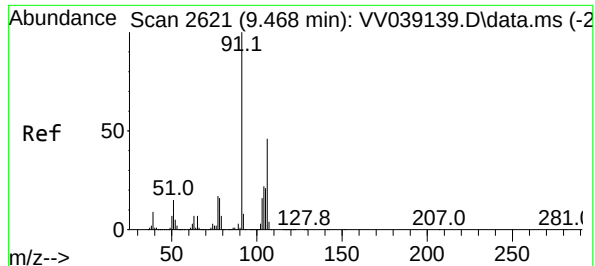
Tgt Ion: 106 Resp: 270452

Ion Ratio Lower Upper

106 100

91 202.1 162.5 243.7





#69

o-Xylene

Concen: 9.756 ug/l

RT: 9.468 min Scan# 2

Delta R.T. 0.000 min

Lab File: VV039137.D

Acq: 22 Sep 2025 12:26

Instrument :

MSVOA_V

ClientSampleId :

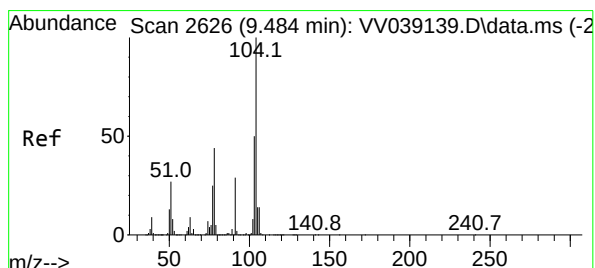
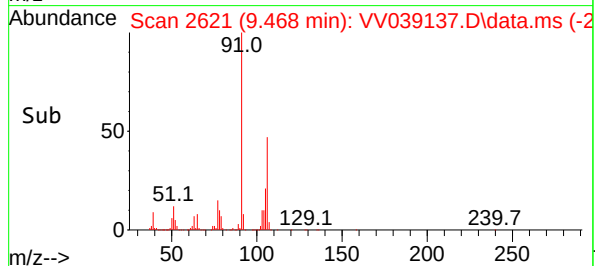
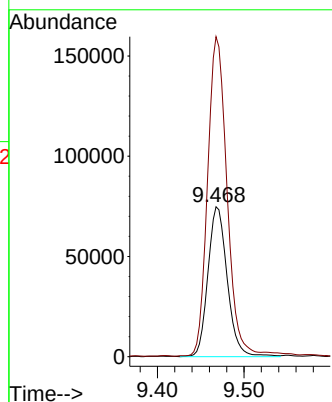
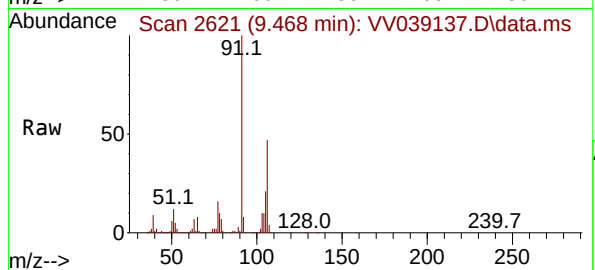
VSTDIC010

Tgt Ion:106 Resp: 115922

Ion Ratio Lower Upper

106 100

91 212.5 109.1 327.3



#70

Styrene

Concen: 9.382 ug/l

RT: 9.487 min Scan# 2627

Delta R.T. 0.003 min

Lab File: VV039137.D

Acq: 22 Sep 2025 12:26

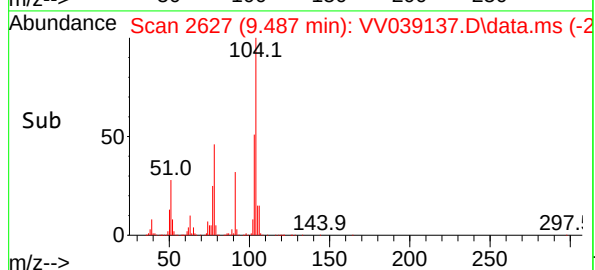
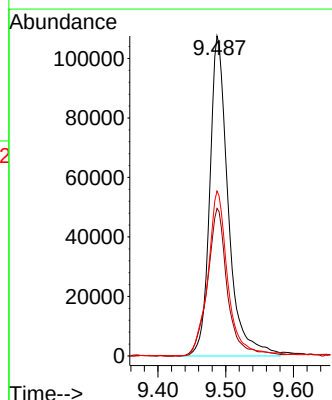
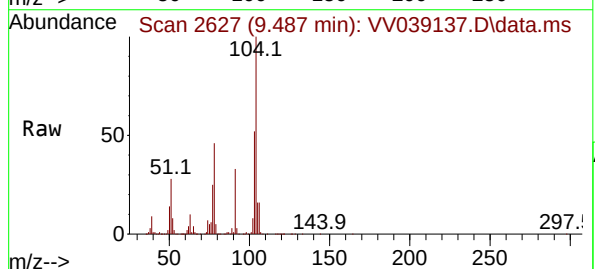
Tgt Ion:104 Resp: 204368

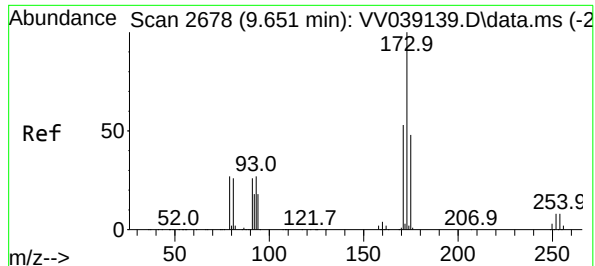
Ion Ratio Lower Upper

104 100

78 49.9 39.8 59.6

103 54.8 43.4 65.2

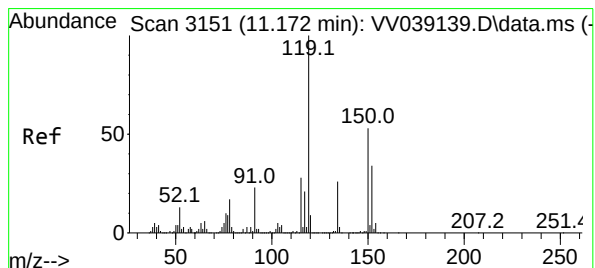
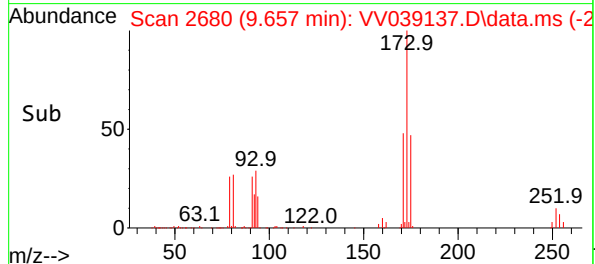
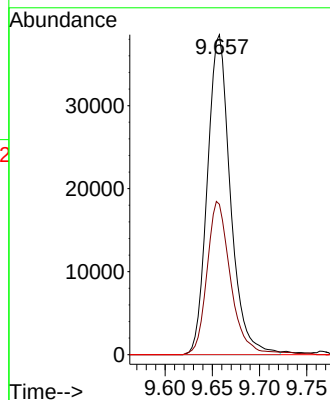
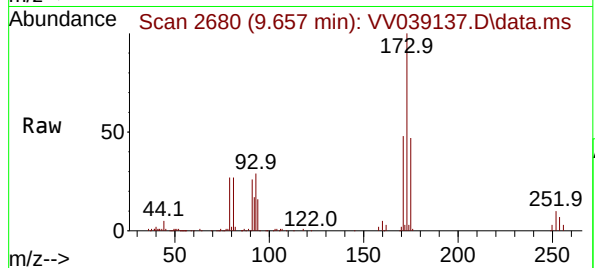




#71
Bromoform
Concen: 10.074 ug/l
RT: 9.657 min Scan# 2680
Delta R.T. 0.006 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

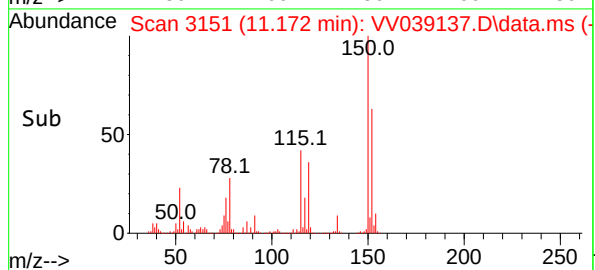
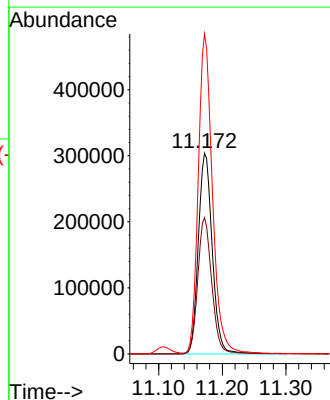
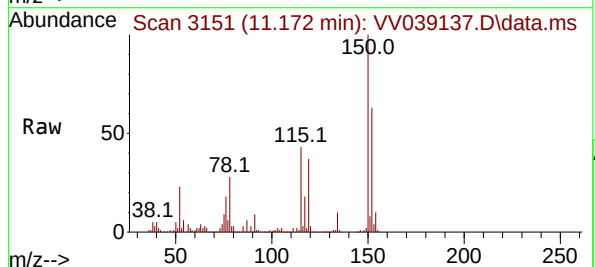
Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

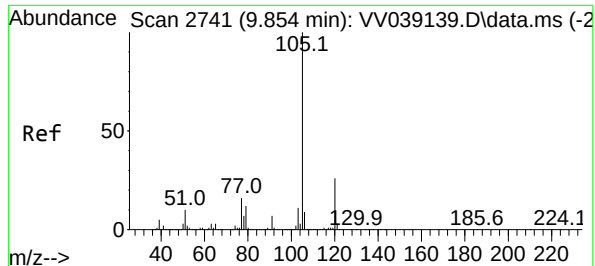
Tgt Ion	Ratio	Lower	Upper
173	100		
175	49.4	23.9	71.7
254	0.0	0.1	0.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3151
Delta R.T. -0.000 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion	Ratio	Lower	Upper
152	100		
115	67.6	44.8	134.4
150	161.2	0.0	353.8

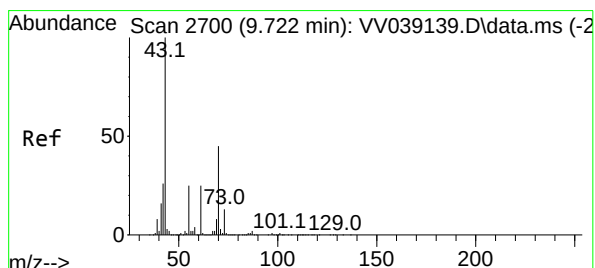
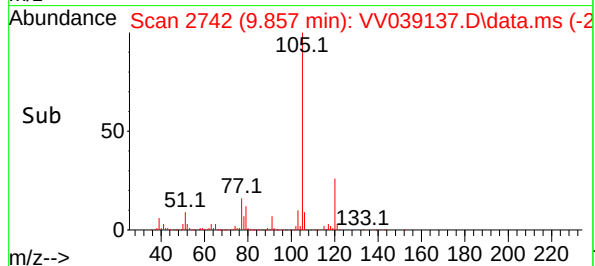
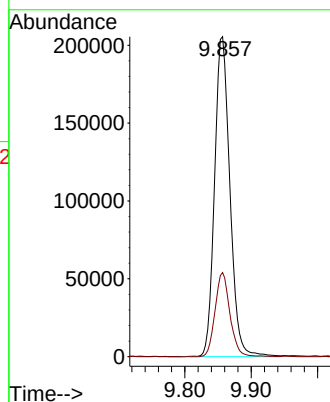
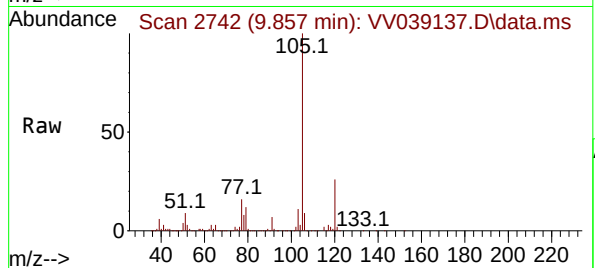




#73
Isopropylbenzene
Concen: 9.827 ug/l
RT: 9.857 min Scan# 2741
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

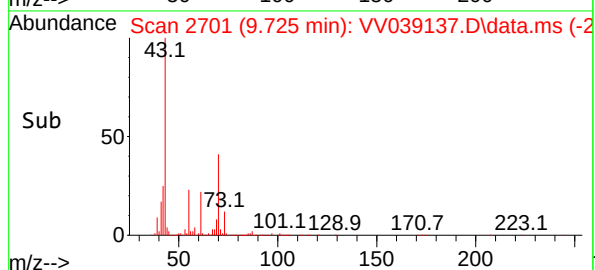
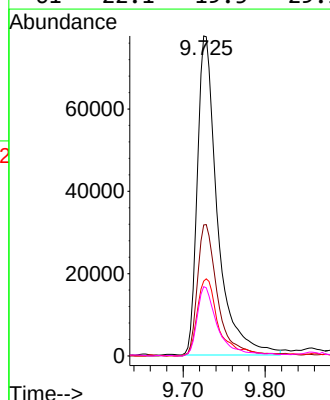
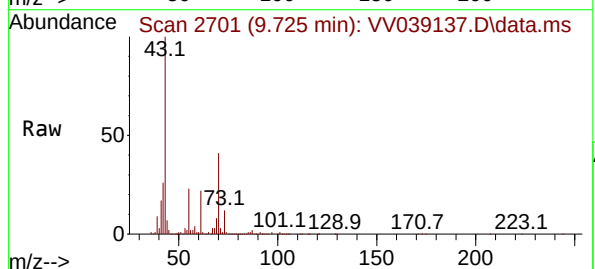
Instrument :
MSVOA_V
ClientSampleId :
VSTDIC010

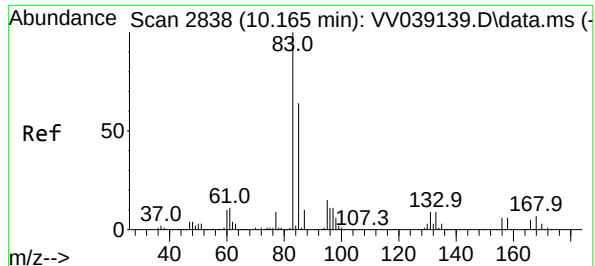
Tgt Ion: 105 Resp: 330305
Ion Ratio Lower Upper
105 100
120 25.5 13.1 39.1



#74
N-ethyl acetate
Concen: 9.853 ug/l
RT: 9.725 min Scan# 2701
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 43 Resp: 132108
Ion Ratio Lower Upper
43 100
70 41.7 35.4 53.0
55 24.3 20.6 30.8
61 22.1 19.5 29.3

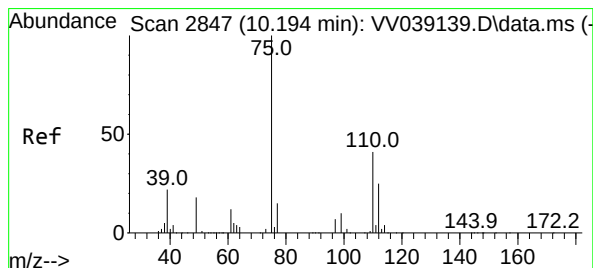
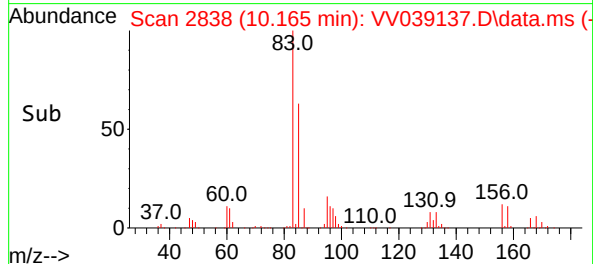
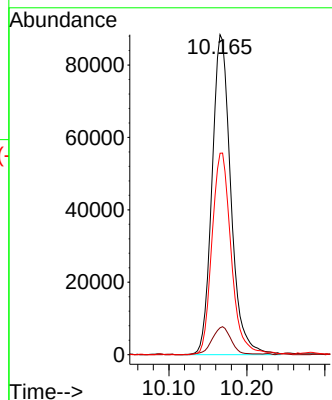
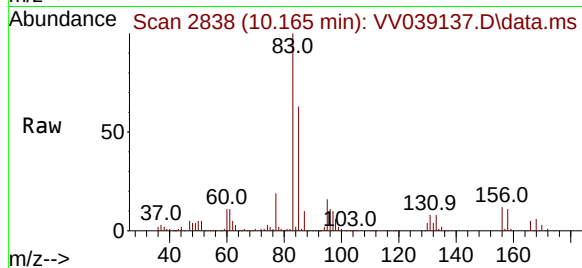




#75
1,1,2,2-Tetrachloroethane
Concen: 10.067 ug/l
RT: 10.165 min Scan# 2838
Delta R.T. 0.000 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

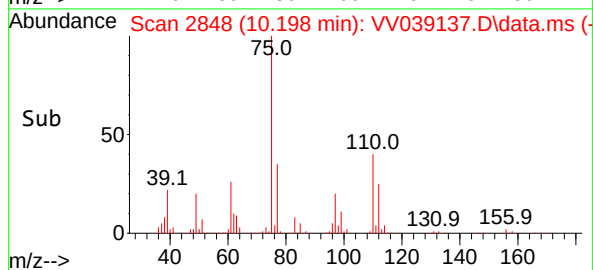
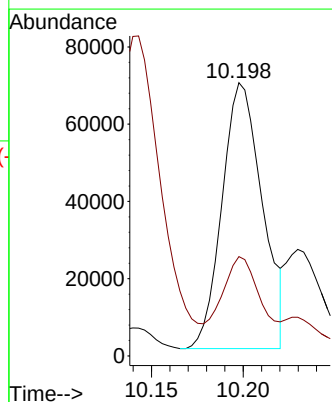
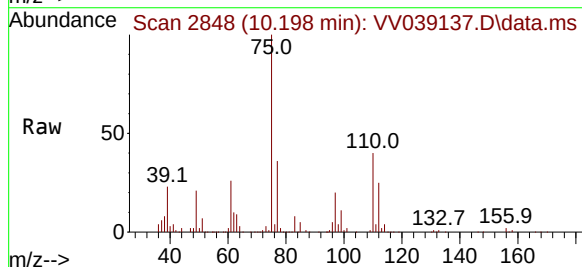
Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

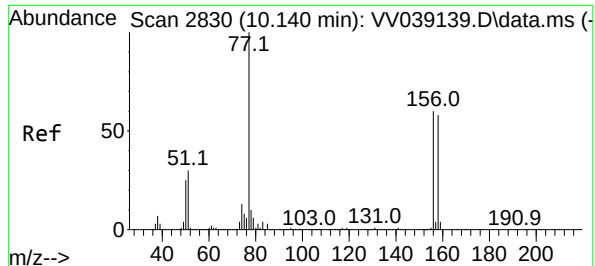
Tgt Ion: 83 Resp: 148267
Ion Ratio Lower Upper
83 100
131 8.9 4.5 13.7
85 64.4 31.9 95.9



#76
1,2,3-Trichloropropane
Concen: 9.977 ug/l
RT: 10.198 min Scan# 2848
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 75 Resp: 105275
Ion Ratio Lower Upper
75 100
77 21.9 11.3 33.8

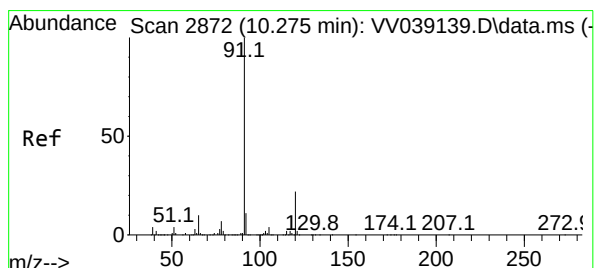
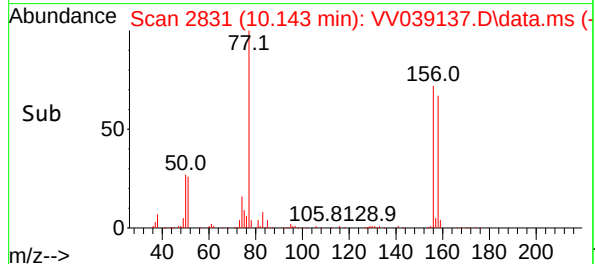
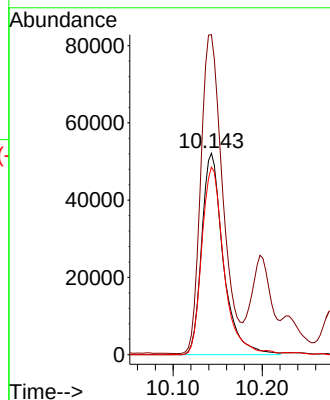
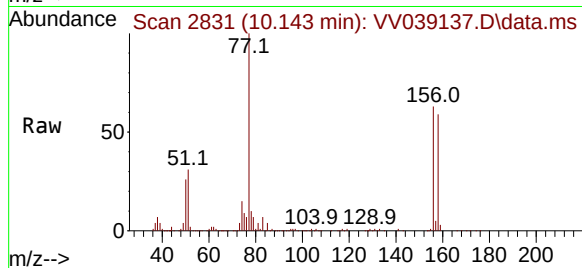




#77
Bromobenzene
Concen: 10.071 ug/l
RT: 10.143 min Scan# 2830
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

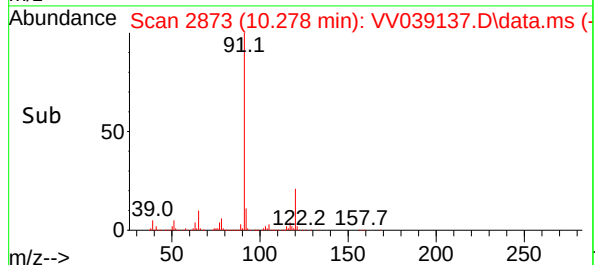
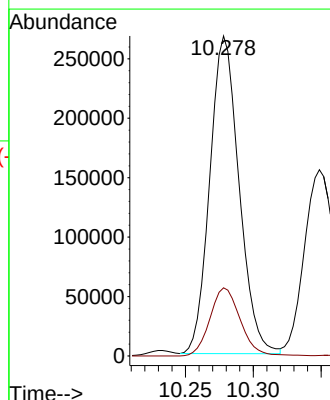
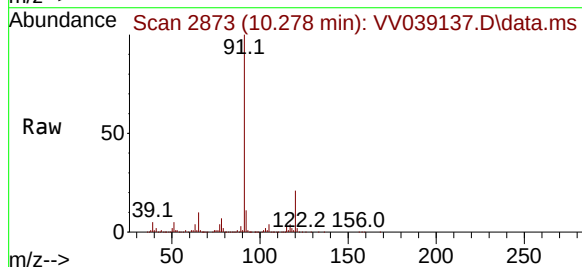
Instrument :
MSVOA_V
ClientSampleId :
VSTDIC010

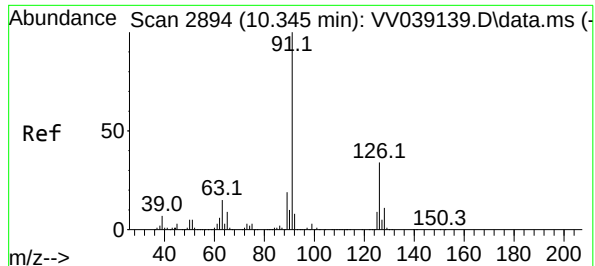
Tgt Ion	Ratio	Lower	Upper
156	100		
77	160.3	83.4	250.1
158	94.3	48.8	146.4



#78
n-propylbenzene
Concen: 9.804 ug/l
RT: 10.278 min Scan# 2873
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion	Ratio	Lower	Upper
91	100		
120	22.3	11.1	33.3





#79

2-Chlorotoluene

Concen: 10.413 ug/l

RT: 10.349 min Scan# 2894

Delta R.T. 0.003 min

Lab File: VV039137.D

Acq: 22 Sep 2025 12:26

Instrument :

MSVOA_V

ClientSampleId :

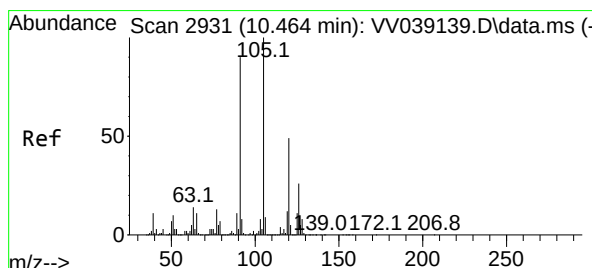
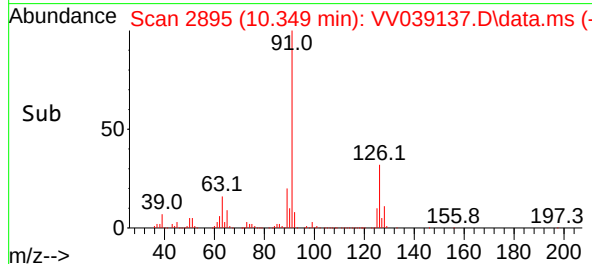
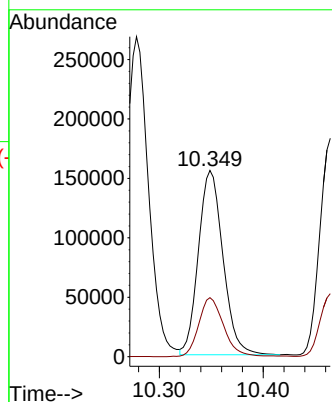
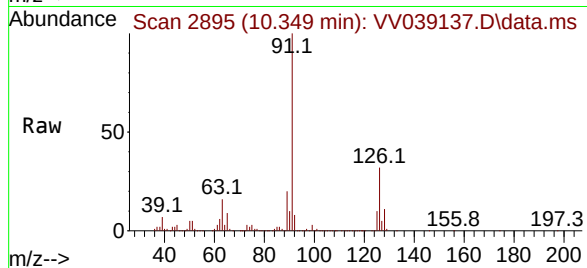
VSTDIC010

Tgt Ion: 91 Resp: 255053

Ion Ratio Lower Upper

91 100

126 32.7 16.7 50.0



#80

1,3,5-Trimethylbenzene

Concen: 9.699 ug/l

RT: 10.464 min Scan# 2931

Delta R.T. 0.000 min

Lab File: VV039137.D

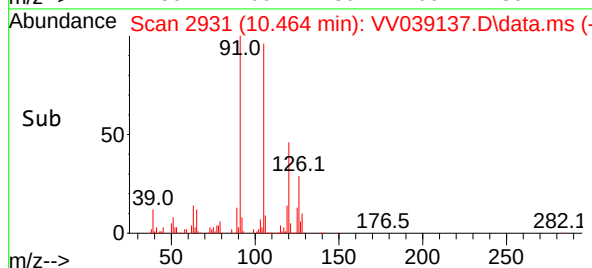
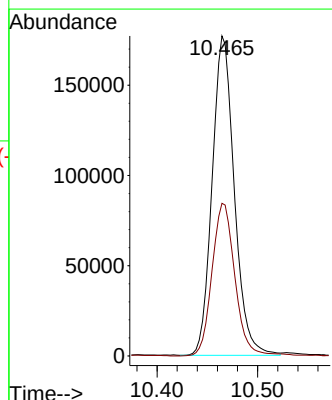
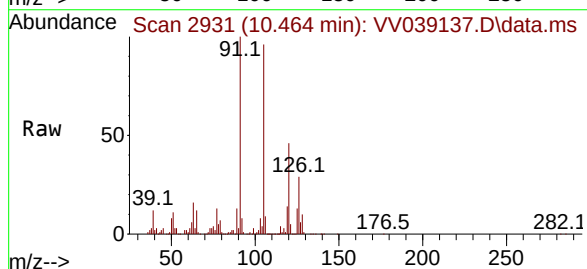
Acq: 22 Sep 2025 12:26

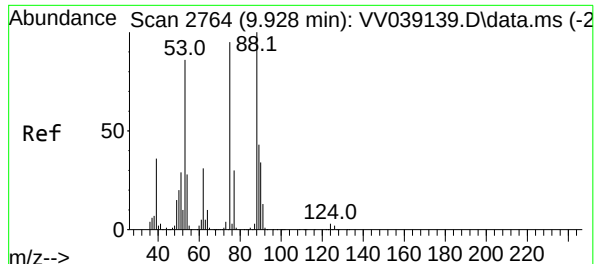
Tgt Ion: 105 Resp: 270977

Ion Ratio Lower Upper

105 100

120 49.6 24.3 72.8

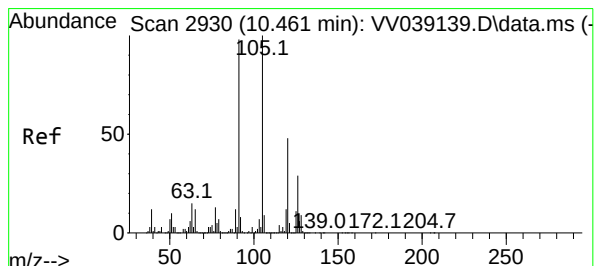
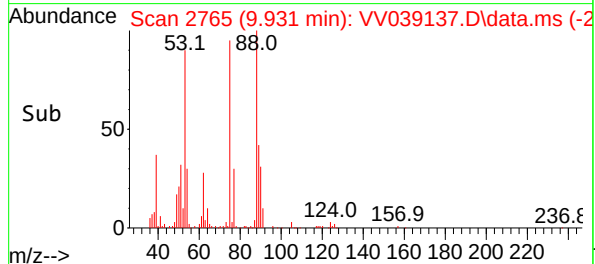
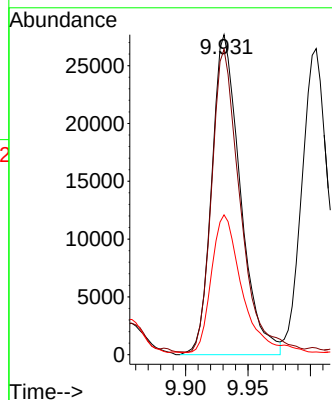
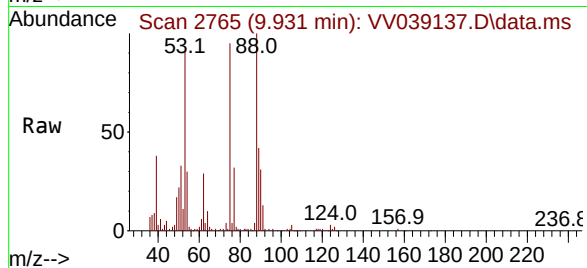




#81
trans-1,4-Dichloro-2-butene
Concen: 10.082 ug/l
RT: 9.931 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

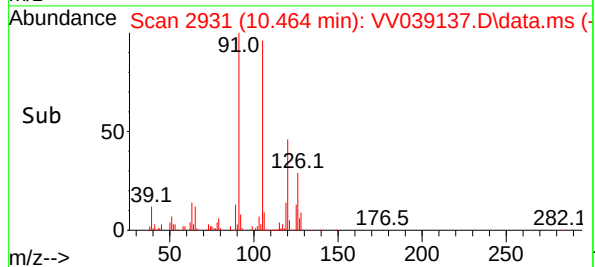
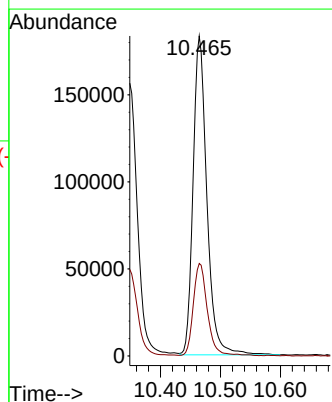
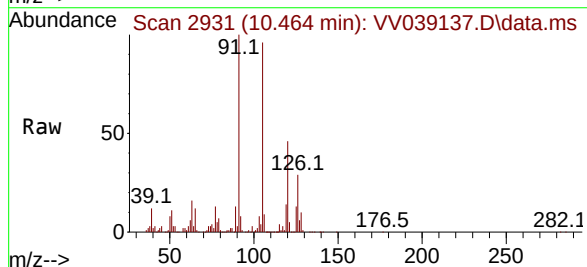
Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

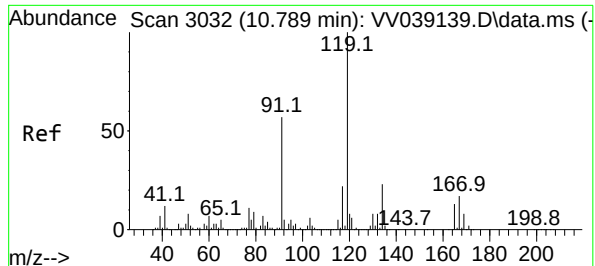
Tgt Ion: 75 Resp: 44314
Ion Ratio Lower Upper
75 100
53 94.1 72.5 108.7
89 45.9 37.2 55.8



#82
4-Chlorotoluene
Concen: 10.312 ug/l
RT: 10.464 min Scan# 2931
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 91 Resp: 292863
Ion Ratio Lower Upper
91 100
126 29.0 14.5 43.6





#83

tert-Butylbenzene

Concen: 9.603 ug/l

RT: 10.789 min Scan# 3032

Delta R.T. 0.000 min

Lab File: VV039137.D

Acq: 22 Sep 2025 12:26

Instrument :

MSVOA_V

ClientSampleId :

VSTDICC010

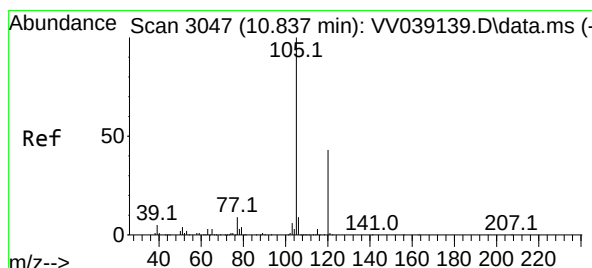
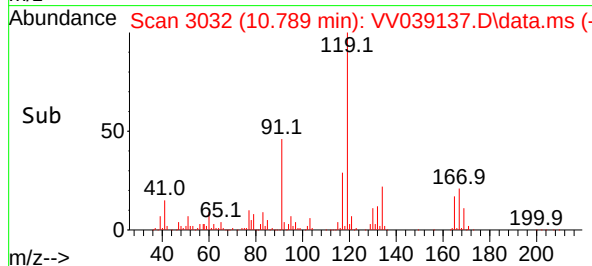
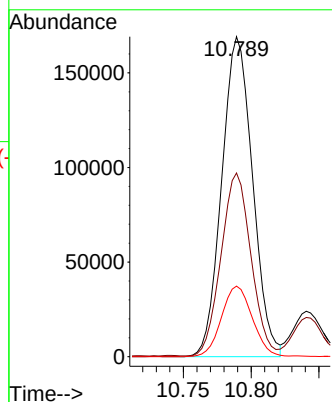
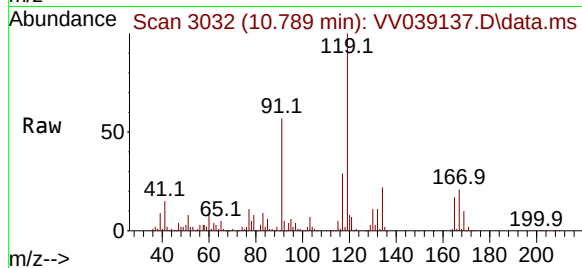
Tgt Ion:119 Resp: 267528

Ion Ratio Lower Upper

119 100

91 55.4 28.5 85.6

134 22.1 11.5 34.4



#84

1,2,4-Trimethylbenzene

Concen: 9.457 ug/l

RT: 10.841 min Scan# 3048

Delta R.T. 0.003 min

Lab File: VV039137.D

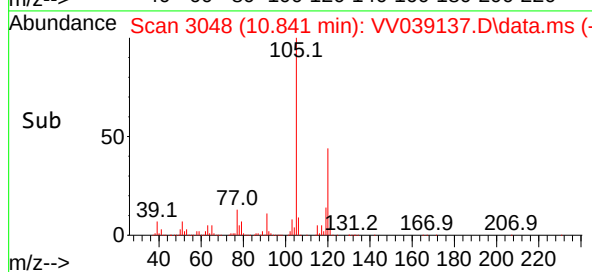
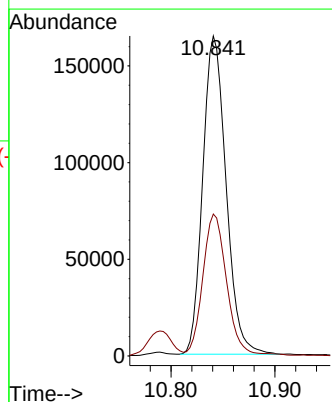
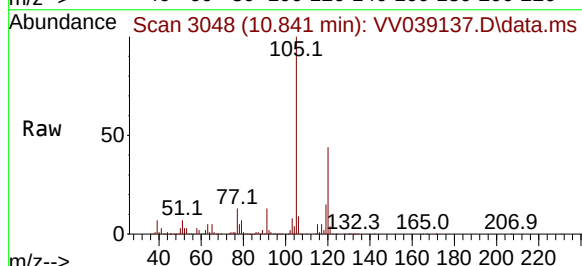
Acq: 22 Sep 2025 12:26

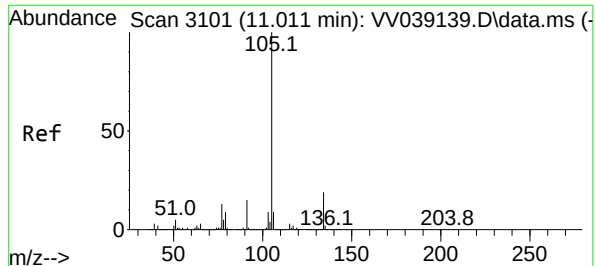
Tgt Ion:105 Resp: 256505

Ion Ratio Lower Upper

105 100

120 45.4 22.4 67.2





#85

sec-Butylbenzene

Concen: 9.588 ug/l

RT: 11.011 min Scan# 3101

Delta R.T. 0.000 min

Lab File: VV039137.D

Acq: 22 Sep 2025 12:26

Instrument :

MSVOA_V

ClientSampleId :

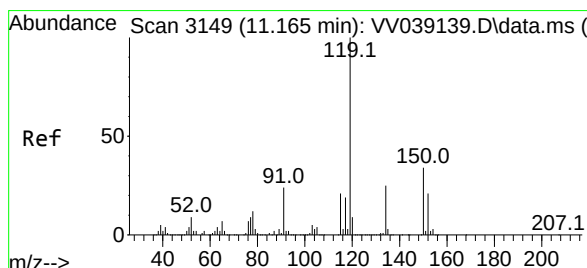
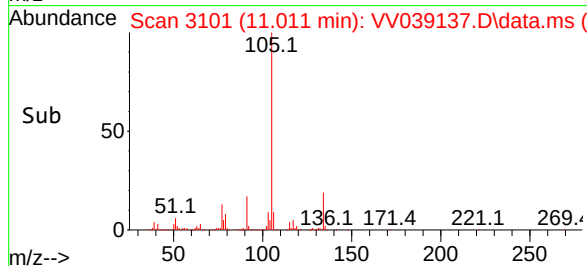
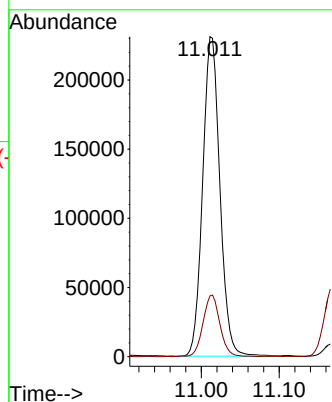
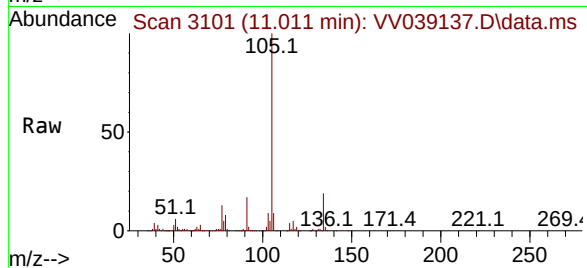
VSTDIC010

Tgt Ion:105 Resp: 354312

Ion Ratio Lower Upper

105 100

134 19.0 9.6 28.8



#86

p-Isopropyltoluene

Concen: 9.755 ug/l

RT: 11.169 min Scan# 3150

Delta R.T. 0.003 min

Lab File: VV039137.D

Acq: 22 Sep 2025 12:26

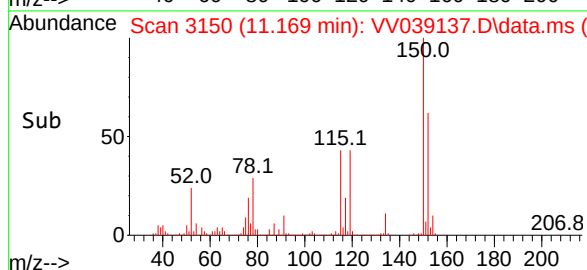
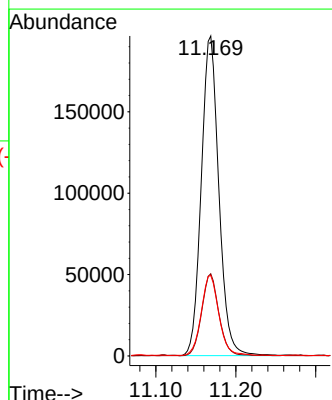
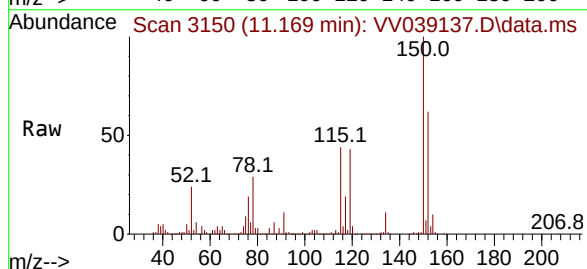
Tgt Ion:119 Resp: 300032

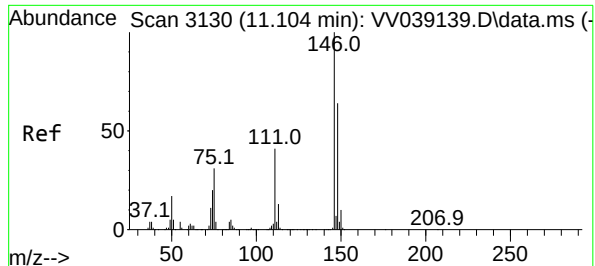
Ion Ratio Lower Upper

119 100

134 25.2 12.7 38.0

91 25.2 12.0 36.1





#87

1,3-Dichlorobenzene

Concen: 10.141 ug/l

RT: 11.108 min Scan# 3131

Delta R.T. 0.003 min

Lab File: VV039137.D

Acq: 22 Sep 2025 12:26

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC010

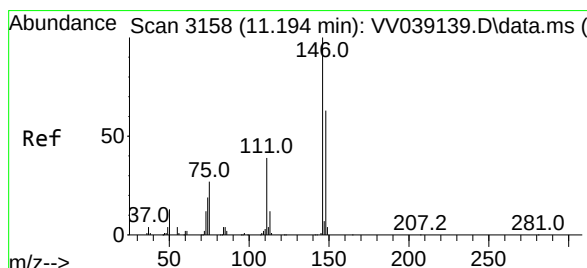
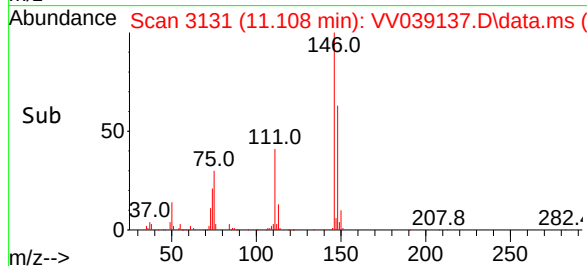
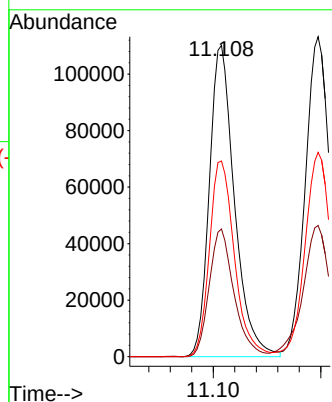
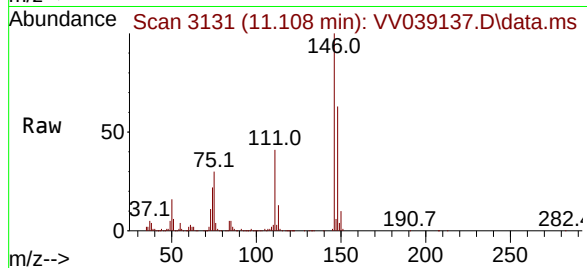
Tgt Ion:146 Resp: 178990

Ion Ratio Lower Upper

146 100

111 40.3 20.9 62.8

148 62.8 31.8 95.3



#88

1,4-Dichlorobenzene

Concen: 9.835 ug/l

RT: 11.198 min Scan# 3159

Delta R.T. 0.003 min

Lab File: VV039137.D

Acq: 22 Sep 2025 12:26

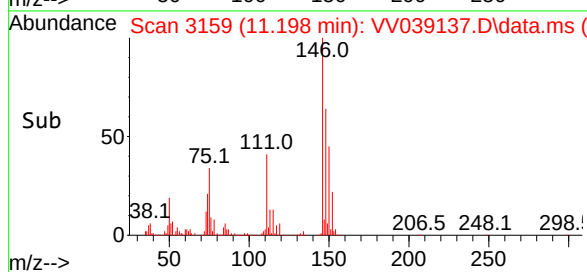
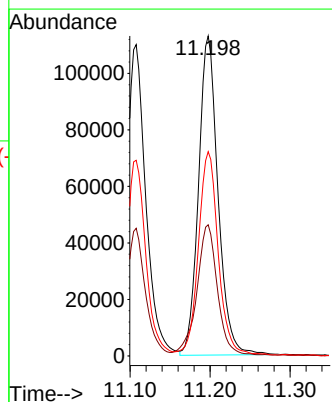
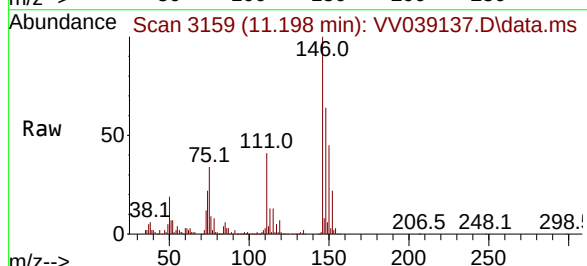
Tgt Ion:146 Resp: 191843

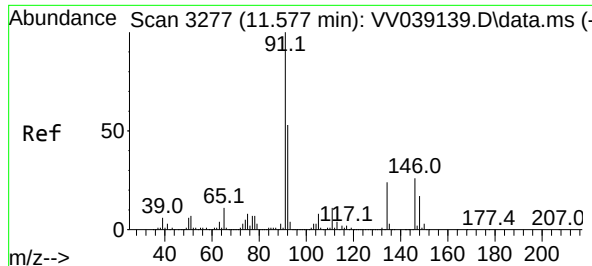
Ion Ratio Lower Upper

146 100

111 43.0 20.3 60.8

148 65.1 31.4 94.2





#89

n-Butylbenzene

Concen: 9.575 ug/l

RT: 11.580 min Scan# 31

Delta R.T. 0.003 min

Lab File: VV039137.D

Acq: 22 Sep 2025 12:26

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC010

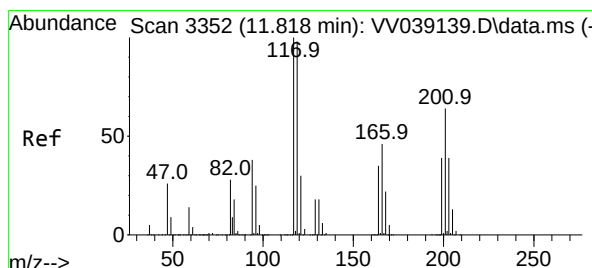
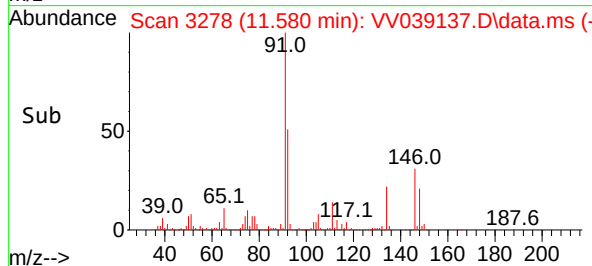
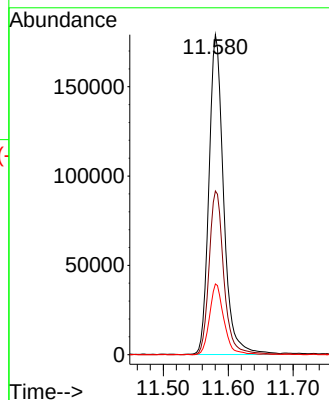
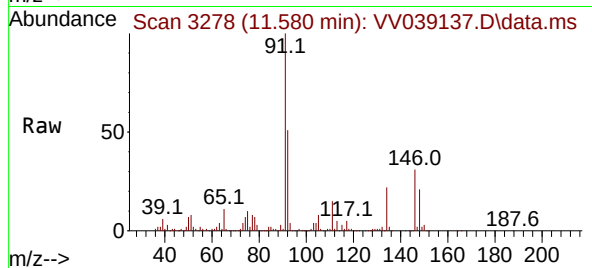
Tgt Ion: 91 Resp: 281258

Ion Ratio Lower Upper

91 100

92 51.5 26.6 79.8

134 21.7 12.1 36.3



#90

Hexachloroethane

Concen: 9.891 ug/l

RT: 11.821 min Scan# 3353

Delta R.T. 0.003 min

Lab File: VV039137.D

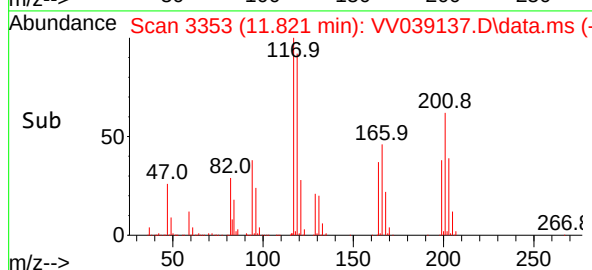
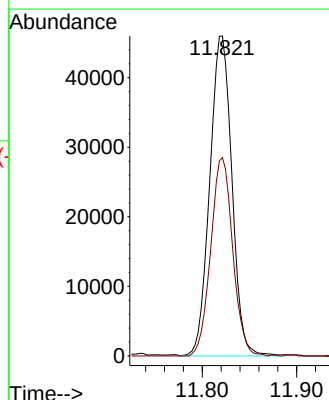
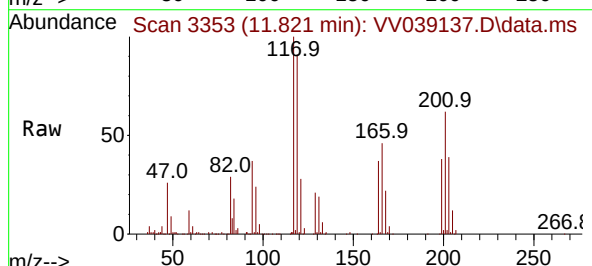
Acq: 22 Sep 2025 12:26

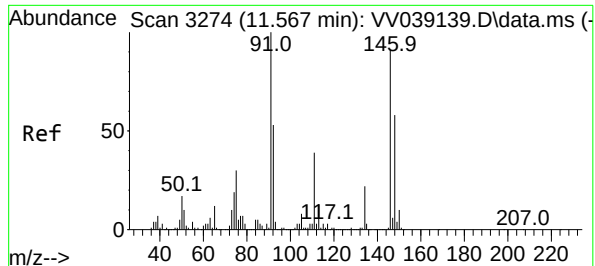
Tgt Ion: 117 Resp: 74910

Ion Ratio Lower Upper

117 100

201 61.4 32.3 96.8

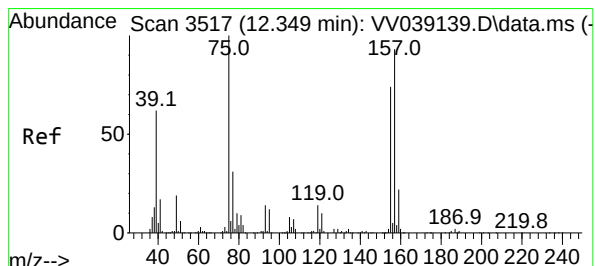
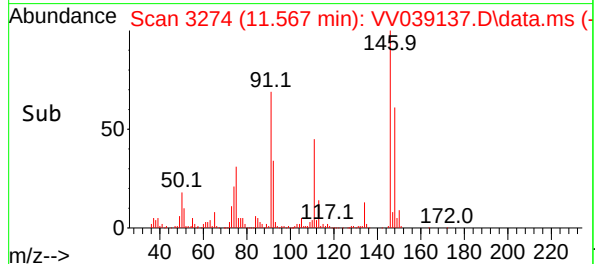
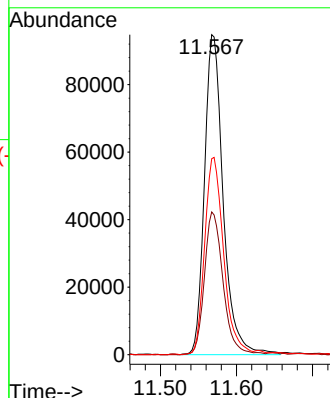
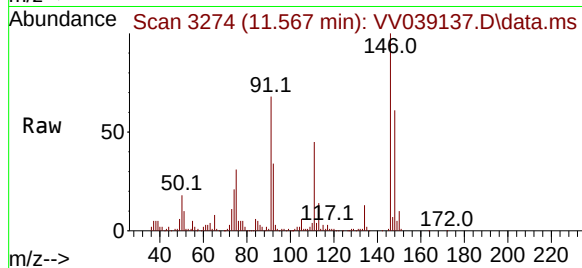




#91
1,2-Dichlorobenzene
Concen: 9.841 ug/l
RT: 11.567 min Scan# 311
Delta R.T. 0.000 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

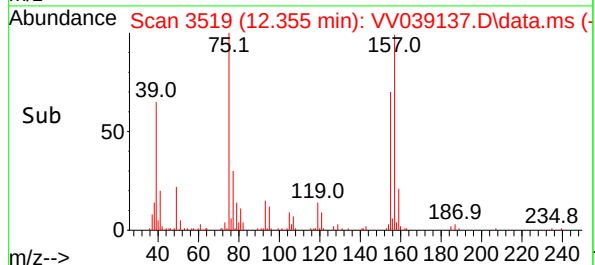
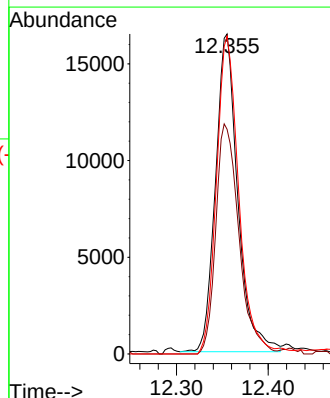
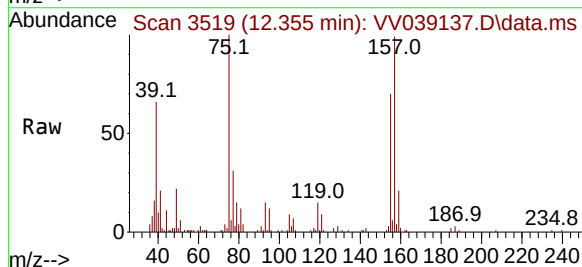
Instrument :
MSVOA_V
ClientSampleId :
VSTDIC010

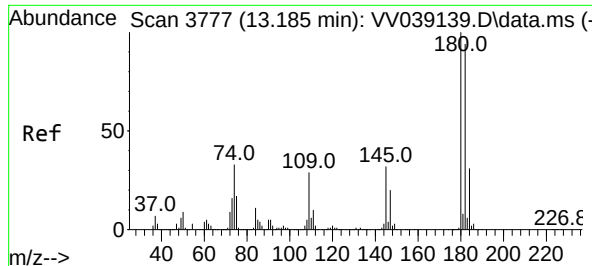
Tgt Ion:146 Resp: 162271
Ion Ratio Lower Upper
146 100
111 44.3 21.5 64.5
148 62.3 31.9 95.7



#92
1,2-Dibromo-3-Chloropropane
Concen: 10.167 ug/l
RT: 12.355 min Scan# 3519
Delta R.T. 0.006 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 75 Resp: 27674
Ion Ratio Lower Upper
75 100
155 75.5 38.6 115.8
157 100.7 49.5 148.3





#93

1,2,4-Trichlorobenzene

Concen: 9.096 ug/l

RT: 13.188 min Scan# 3777

Delta R.T. 0.003 min

Lab File: VV039137.D

Acq: 22 Sep 2025 12:26

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC010

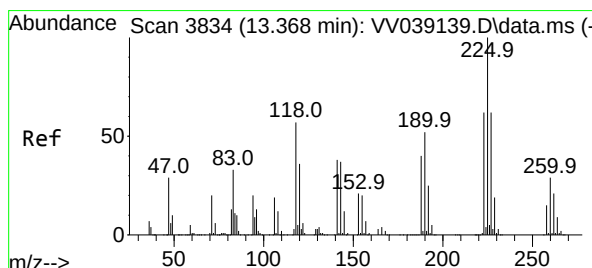
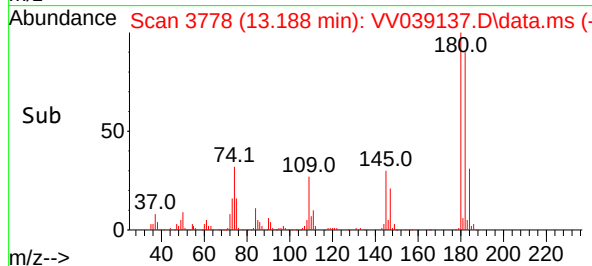
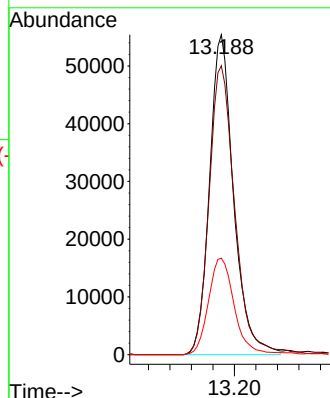
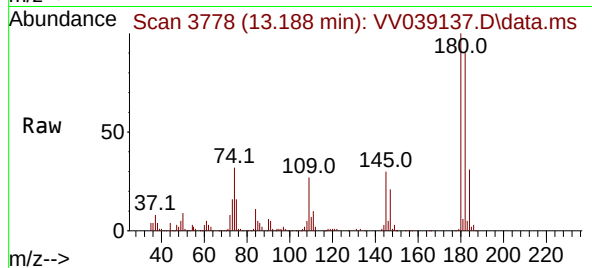
Tgt Ion:180 Resp: 85982

Ion Ratio Lower Upper

180 100

182 96.8 47.1 141.4

145 32.7 16.3 48.8



#94

Hexachlorobutadiene

Concen: 9.653 ug/l

RT: 13.368 min Scan# 3834

Delta R.T. -0.000 min

Lab File: VV039137.D

Acq: 22 Sep 2025 12:26

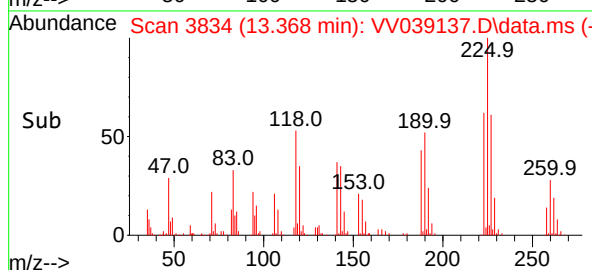
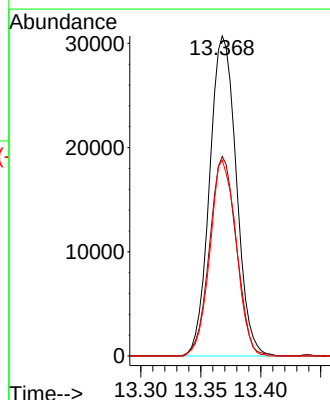
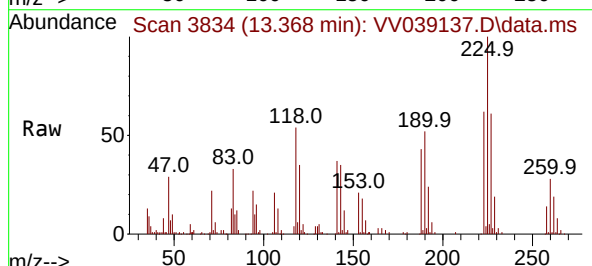
Tgt Ion:225 Resp: 47413

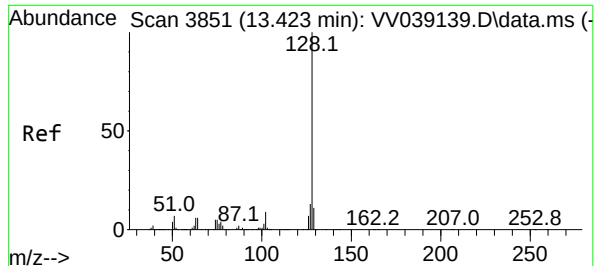
Ion Ratio Lower Upper

225 100

223 62.6 31.6 94.7

227 60.2 31.8 95.4





#95

Naphthalene

Concen: 8.803 ug/l

RT: 13.426 min Scan# 3851

Delta R.T. 0.003 min

Lab File: VV039137.D

Acq: 22 Sep 2025 12:26

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC010

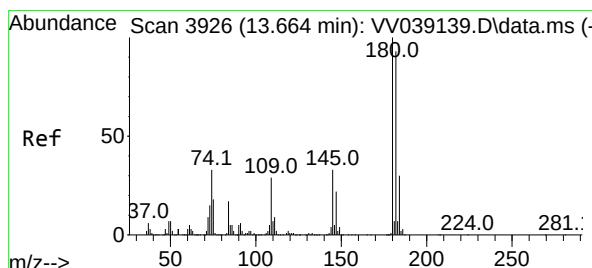
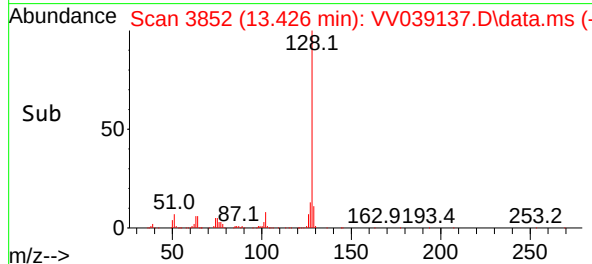
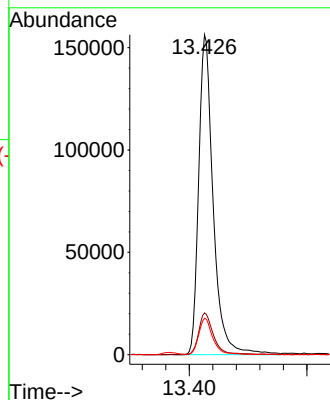
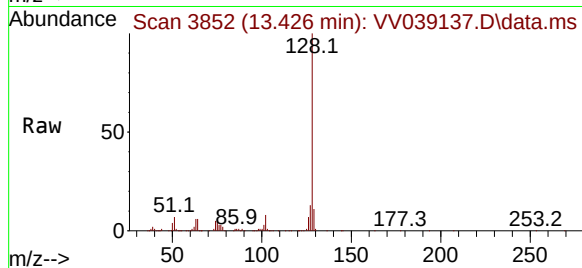
Tgt Ion:128 Resp: 267645

Ion Ratio Lower Upper

128 100

127 13.4 10.3 15.5

129 10.8 8.6 13.0



#96

1,2,3-Trichlorobenzene

Concen: 9.334 ug/l

RT: 13.667 min Scan# 3927

Delta R.T. 0.003 min

Lab File: VV039137.D

Acq: 22 Sep 2025 12:26

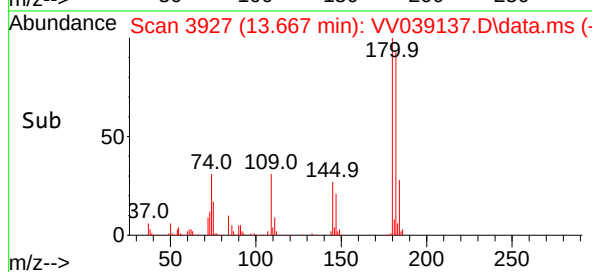
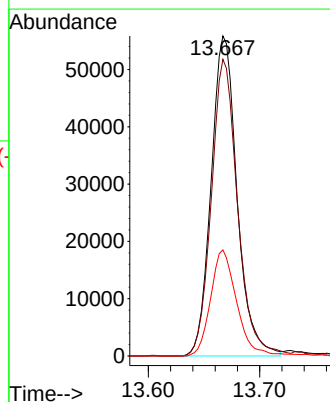
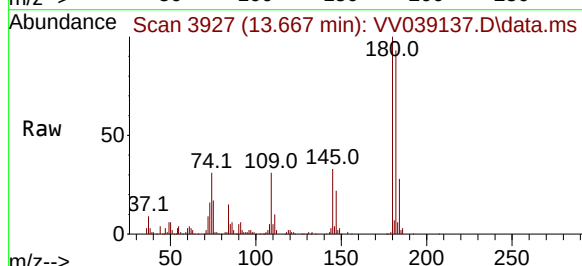
Tgt Ion:180 Resp: 90238

Ion Ratio Lower Upper

180 100

182 93.8 46.9 140.8

145 33.7 17.0 51.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
 Data File : VV039138.D
 Acq On : 22 Sep 2025 12:48
 Operator : SY/MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDICC020

Quant Time: Sep 24 07:22:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 24 07:14:23 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	4.600	168	545775	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.532	114	880963	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.773	117	860340	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	509460	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.947	65	144689	18.317	ug/l	0.00
Spiked Amount	50.000	Range	81 - 118	Recovery	=	36.640%#
35) Dibromofluoromethane	4.503	113	134662	19.014	ug/l	0.00
Spiked Amount	50.000	Range	80 - 119	Recovery	=	38.020%#
50) Toluene-d8	7.236	98	384827	18.501	ug/l	0.00
Spiked Amount	50.000	Range	89 - 112	Recovery	=	37.000%#
62) 4-Bromofluorobenzene	10.002	95	163597	19.105	ug/l	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	=	38.220%#

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.121	85	165175	19.118	ug/l	96
3) Chloromethane	1.230	50	177694	19.159	ug/l	99
4) Vinyl Chloride	1.298	62	186887	18.822	ug/l	99
5) Bromomethane	1.500	94	119578	19.104	ug/l	98
6) Chloroethane	1.561	64	124021	19.935	ug/l	99
7) Trichlorofluoromethane	1.729	101	273532	19.027	ug/l	100
8) Diethyl Ether	1.921	74	100661	18.862	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.085	101	159719	18.673	ug/l	99
10) Methyl Iodide	2.198	142	161932	19.880	ug/l	99
11) Tert butyl alcohol	2.568	59	171137	102.509	ug/l	98
12) 1,1-Dichloroethene	2.085	96	157427	19.131	ug/l	97
13) Acrolein	2.011	56	29609	102.210	ug/l	97
14) Allyl chloride	2.359	41	280200	19.062	ug/l	99
15) Acrylonitrile	2.674	53	504022	94.179	ug/l	99
16) Acetone	2.121	43	499669	95.756	ug/l	99
17) Carbon Disulfide	2.253	76	476229	18.923	ug/l	100
18) Methyl Acetate	2.381	43	226208	19.328	ug/l	98
19) Methyl tert-butyl Ether	2.712	73	498918	19.027	ug/l	99
20) Methylene Chloride	2.458	84	185050	20.143	ug/l	97
21) trans-1,2-Dichloroethene	2.703	96	164898	18.823	ug/l	97
22) Diisopropyl ether	3.217	45	552331	19.640	ug/l	83
23) Vinyl Acetate	3.191	43	2445787	99.414	ug/l	100
24) 1,1-Dichloroethane	3.118	63	320146	18.615	ug/l	99
25) 2-Butanone	3.870	43	637413	102.519	ug/l	100
26) 2,2-Dichloropropane	3.812	77	278362	18.326	ug/l	98
27) cis-1,2-Dichloroethene	3.822	96	183867	19.031	ug/l	98
28) Bromochloromethane	4.146	49	164406	21.654	ug/l	99
29) Tetrahydrofuran	4.240	42	405777	102.491	ug/l	99
30) Chloroform	4.281	83	342700	19.083	ug/l	99
31) Cyclohexane	4.587	56	266753	18.934	ug/l	98
32) 1,1,1-Trichloroethane	4.516	97	288341	18.546	ug/l	99
36) 1,1-Dichloropropene	4.748	75	212835	19.734	ug/l	99
37) Ethyl Acetate	3.979	43	260591	19.696	ug/l	97
38) Carbon Tetrachloride	4.735	117	250103	19.252	ug/l	98
39) Methylcyclohexane	6.047	83	253693	19.619	ug/l	95
40) Benzene	5.011	78	697141	19.994	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
 Data File : VV039138.D
 Acq On : 22 Sep 2025 12:48
 Operator : SY/MD
 Sample : VSTDIC020
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDIC020

Quant Time: Sep 24 07:22:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 24 07:14:23 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.169	41	102755	18.721	ug/l	95
42) 1,2-Dichloroethane	5.043	62	244487	20.012	ug/l	99
43) Isopropyl Acetate	5.195	43	362512	19.889	ug/l	98
44) Trichloroethene	5.831	130	160692	19.972	ug/l	96
45) 1,2-Dichloropropane	6.092	63	182757	21.087	ug/l	96
46) Dibromomethane	6.227	93	129319	19.495	ug/l	98
47) Bromodichloromethane	6.429	83	269262	19.635	ug/l	97
48) Methyl methacrylate	6.301	41	158251	18.977	ug/l	99
49) 1,4-Dioxane	6.294	88	47860	365.172	ug/l #	85
51) 4-Methyl-2-Pentanone	7.150	43	1296796	111.268	ug/l	98
52) Toluene	7.310	92	422367	20.892	ug/l	100
53) t-1,3-Dichloropropene	7.577	75	245181	20.516	ug/l	98
54) cis-1,3-Dichloropropene	6.950	75	273906	20.761	ug/l	100
55) 1,1,2-Trichloroethane	7.760	97	176812	19.505	ug/l	98
56) Ethyl methacrylate	7.719	69	212320	19.723	ug/l	97
57) 1,3-Dichloropropane	7.934	76	291304	20.363	ug/l	100
58) 2-Chloroethyl Vinyl ether	6.815	63	536254	94.274	ug/l	99
59) 2-Hexanone	8.066	43	940265	101.225	ug/l	98
60) Dibromochloromethane	8.169	129	200793	19.440	ug/l	99
61) 1,2-Dibromoethane	8.275	107	189555	20.447	ug/l	99
64) Tetrachloroethene	7.899	164	141876	19.688	ug/l	99
65) Chlorobenzene	8.805	112	470841	19.648	ug/l	97
66) 1,1,1,2-Tetrachloroethane	8.899	131	167936	19.395	ug/l	99
67) Ethyl Benzene	8.937	91	737391	20.328	ug/l	99
68) m/p-Xylenes	9.063	106	607362	43.381	ug/l	99
69) o-Xylene	9.468	106	255212	20.587	ug/l	100
70) Styrene	9.487	104	475382	19.022	ug/l	99
71) Bromoform	9.654	173	132242	19.552	ug/l	98
73) Isopropylbenzene	9.857	105	741305	20.062	ug/l	99
74) N-amyl acetate	9.725	43	306963	20.826	ug/l	99
75) 1,1,2,2-Tetrachloroethane	10.165	83	297741	18.390	ug/l	100
76) 1,2,3-Trichloropropane	10.198	75	213532	18.409	ug/l	99
77) Bromobenzene	10.140	156	187188	19.525	ug/l	96
78) n-propylbenzene	10.278	91	905281	20.118	ug/l	99
79) 2-Chlorotoluene	10.349	91	547836	20.346	ug/l	99
80) 1,3,5-Trimethylbenzene	10.464	105	640175	20.843	ug/l	99
81) trans-1,4-Dichloro-2-b...	9.928	75	91848	19.009	ug/l	96
82) 4-Chlorotoluene	10.461	91	655427	20.993	ug/l	99
83) tert-Butylbenzene	10.789	119	587151	19.172	ug/l	99
84) 1,2,4-Trimethylbenzene	10.841	105	631679	21.185	ug/l	100
85) sec-Butylbenzene	11.011	105	808869	19.912	ug/l	99
86) p-Isopropyltoluene	11.165	119	682814	20.196	ug/l	100
87) 1,3-Dichlorobenzene	11.104	146	374208	19.287	ug/l	99
88) 1,4-Dichlorobenzene	11.198	146	397526	18.539	ug/l	100
89) n-Butylbenzene	11.580	91	640044	19.822	ug/l	99
90) Hexachloroethane	11.818	117	150843	18.118	ug/l	99
91) 1,2-Dichlorobenzene	11.567	146	336566	18.567	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	12.352	75	57671	19.989	ug/l	98
93) 1,2,4-Trichlorobenzene	13.185	180	196334	18.894	ug/l	99
94) Hexachlorobutadiene	13.368	225	96610	17.893	ug/l	98
95) Naphthalene	13.426	128	634557	18.986	ug/l	99
96) 1,2,3-Trichlorobenzene	13.667	180	198308	18.659	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039138.D
Acq On : 22 Sep 2025 12:48
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

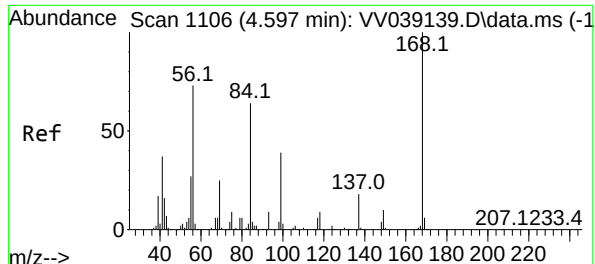
Quant Time: Sep 24 07:22:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

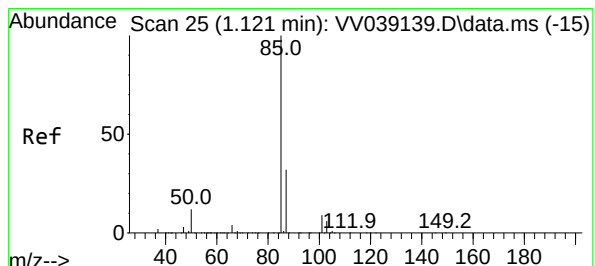
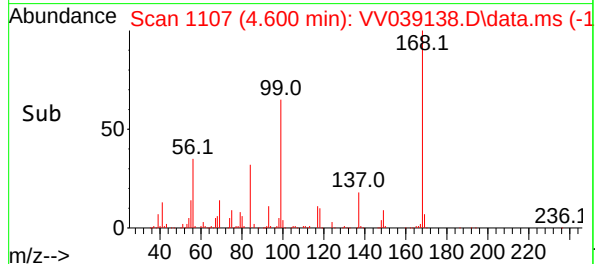
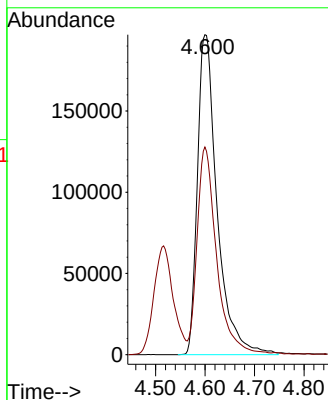
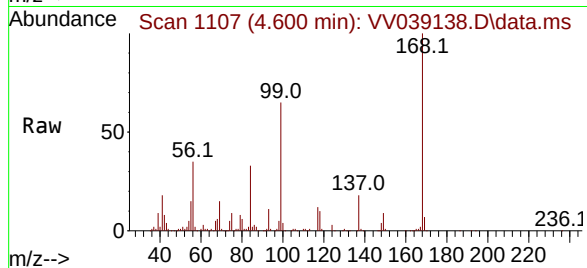
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

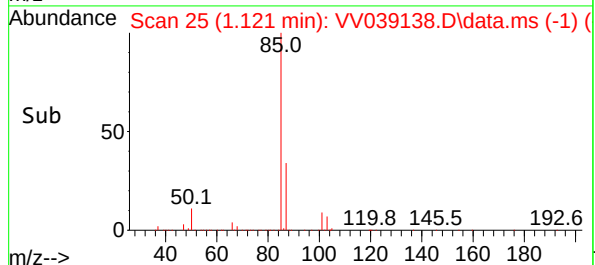
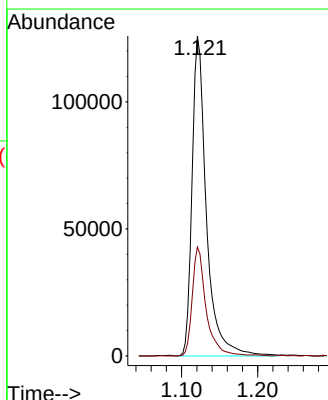
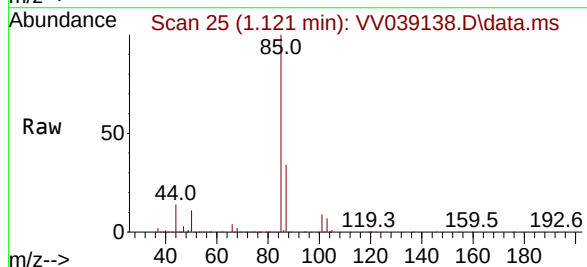
Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

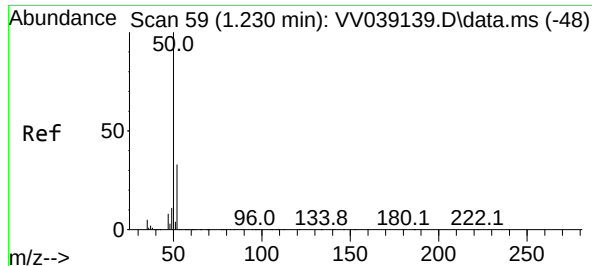
Tgt Ion:168 Resp: 545775
Ion Ratio Lower Upper
168 100
99 64.3 49.6 74.4



#2
Dichlorodifluoromethane
Concen: 19.118 ug/l
RT: 1.121 min Scan# 25
Delta R.T. 0.000 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 85 Resp: 165175
Ion Ratio Lower Upper
85 100
87 34.0 16.0 47.9





#3

Chloromethane

Concen: 19.159 ug/l

RT: 1.230 min Scan# 59

Delta R.T. 0.000 min

Lab File: VV039138.D

Acq: 22 Sep 2025 12:48

Instrument :

MSVOA_V

ClientSampleId :

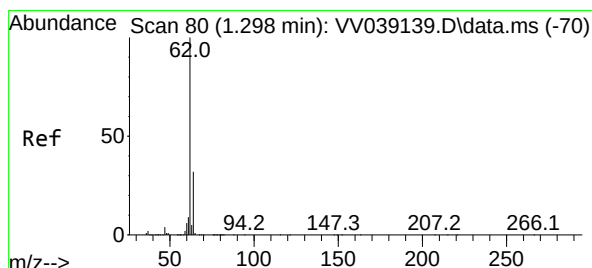
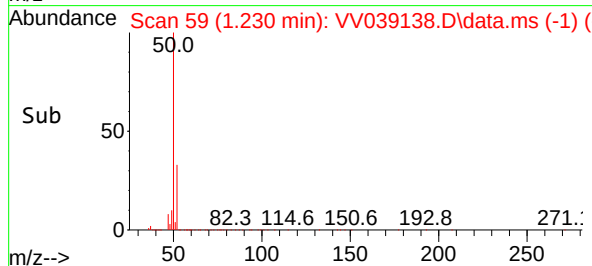
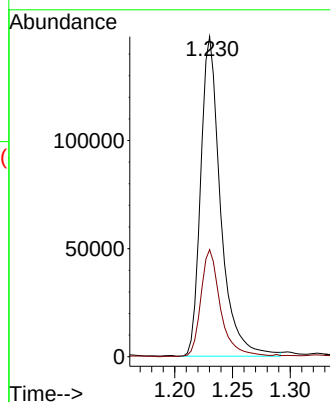
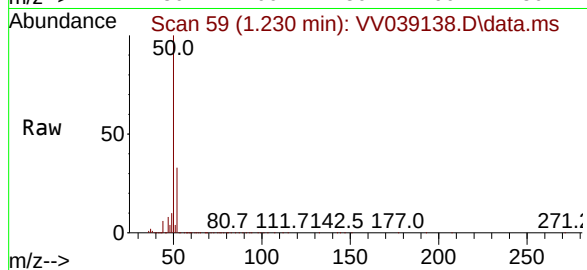
VSTDIC020

Tgt Ion: 50 Resp: 177694

Ion Ratio Lower Upper

50 100

52 33.3 26.0 39.0



#4

Vinyl Chloride

Concen: 18.822 ug/l

RT: 1.298 min Scan# 80

Delta R.T. 0.000 min

Lab File: VV039138.D

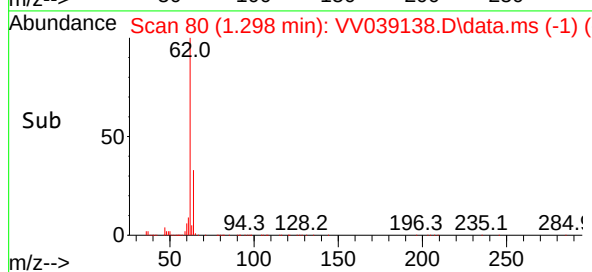
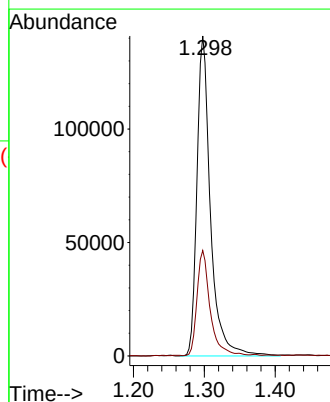
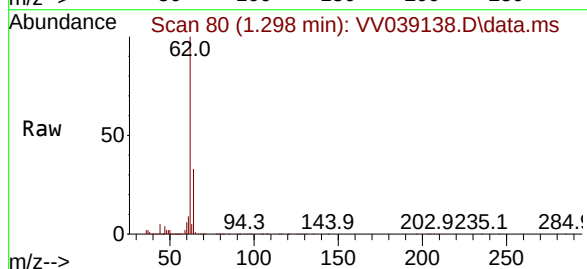
Acq: 22 Sep 2025 12:48

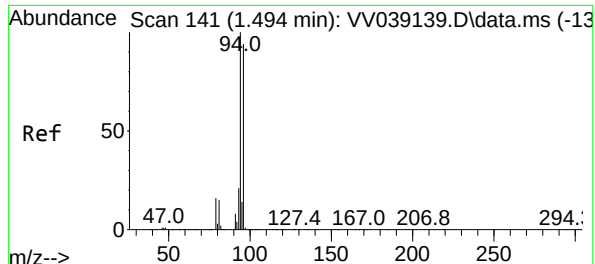
Tgt Ion: 62 Resp: 186887

Ion Ratio Lower Upper

62 100

64 32.8 25.6 38.4

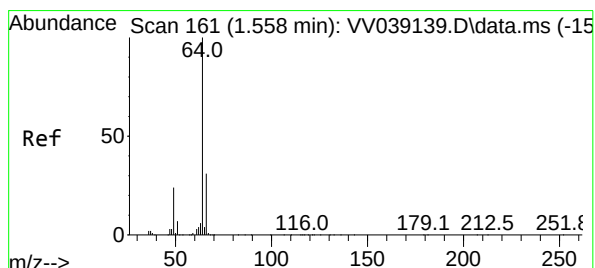
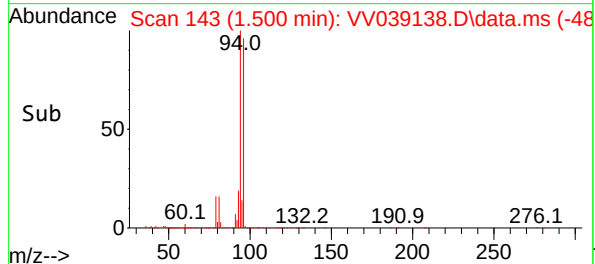
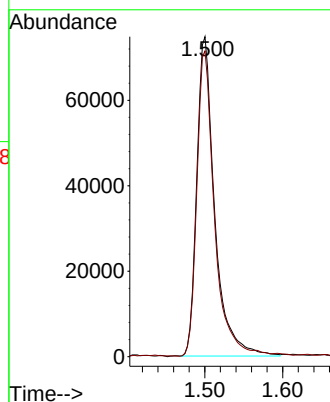
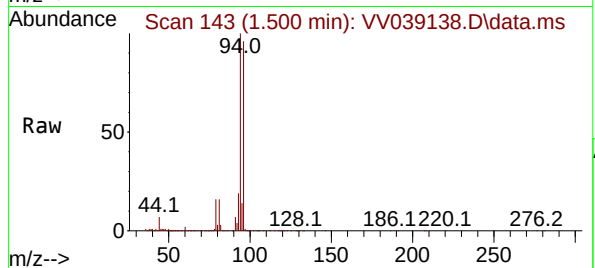




#5
Bromomethane
Concen: 19.104 ug/l
RT: 1.500 min Scan# 141
Delta R.T. 0.006 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

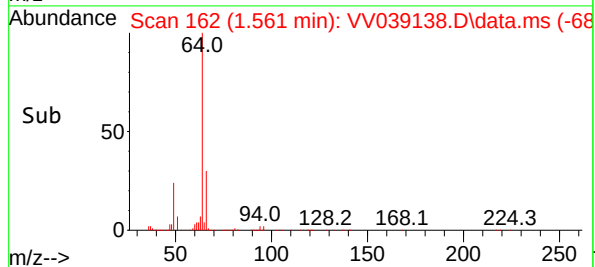
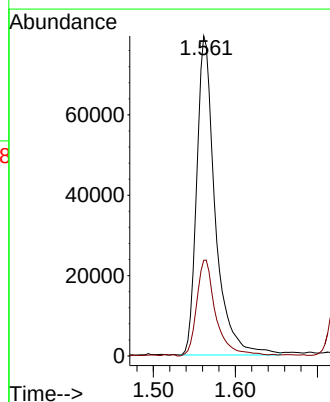
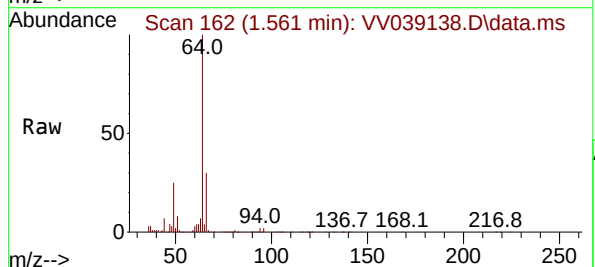
Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

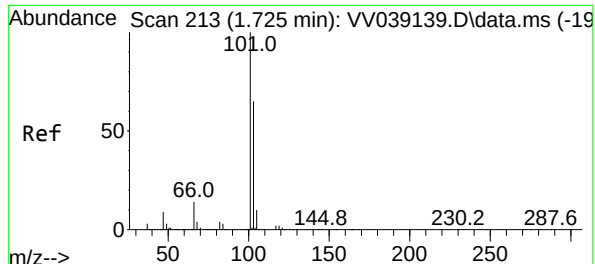
Tgt Ion: 94 Resp: 119578
Ion Ratio Lower Upper
94 100
96 95.6 74.9 112.3



#6
Chloroethane
Concen: 19.935 ug/l
RT: 1.561 min Scan# 162
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 64 Resp: 124021
Ion Ratio Lower Upper
64 100
66 30.0 24.6 36.8

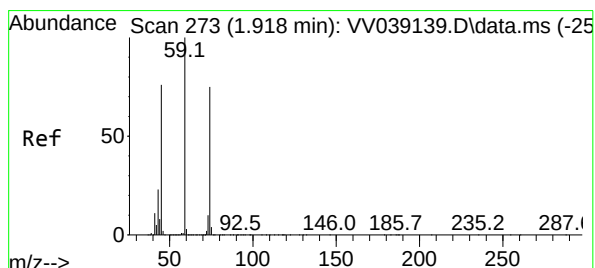
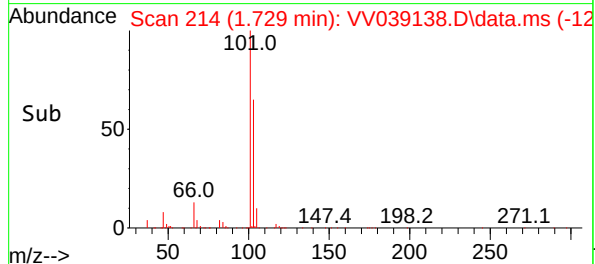
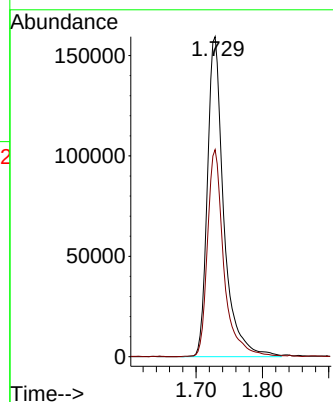
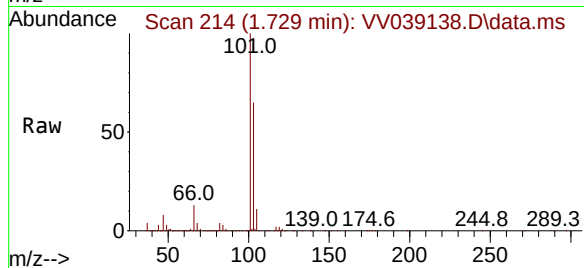




#7
Trichlorofluoromethane
Concen: 19.027 ug/l
RT: 1.729 min Scan# 213
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

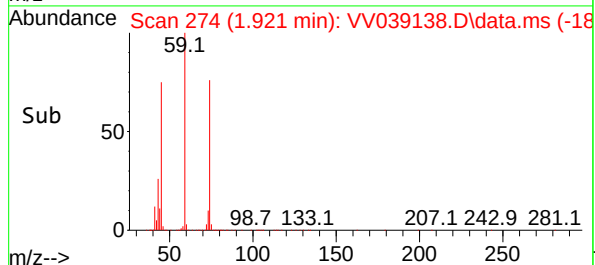
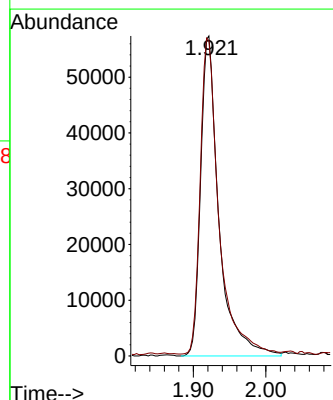
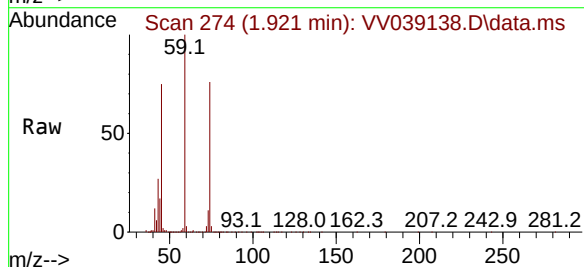
Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

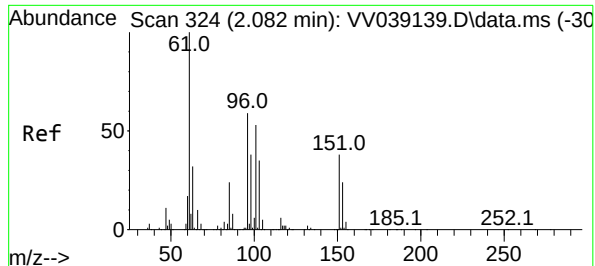
Tgt Ion:101 Resp: 273532
Ion Ratio Lower Upper
101 100
103 64.6 52.0 78.0



#8
Diethyl Ether
Concen: 18.862 ug/l
RT: 1.921 min Scan# 274
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 74 Resp: 100661
Ion Ratio Lower Upper
74 100
45 100.4 49.6 148.8

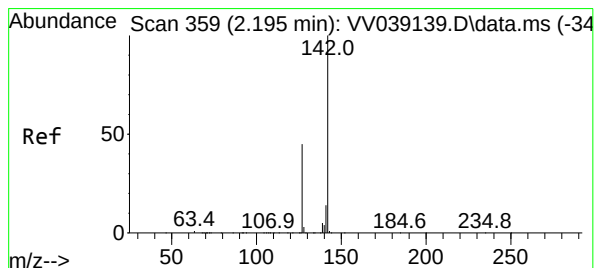
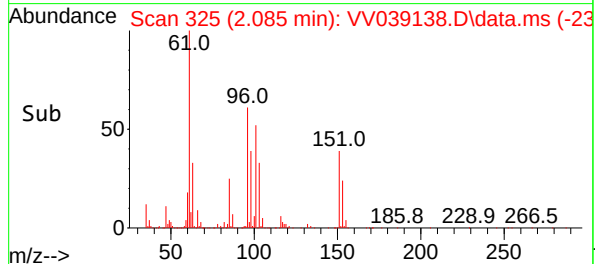
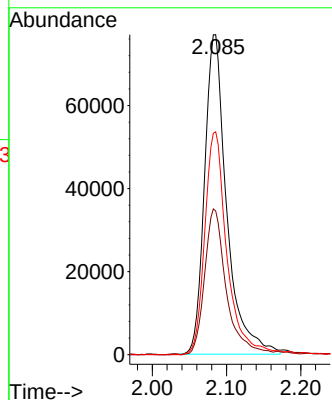
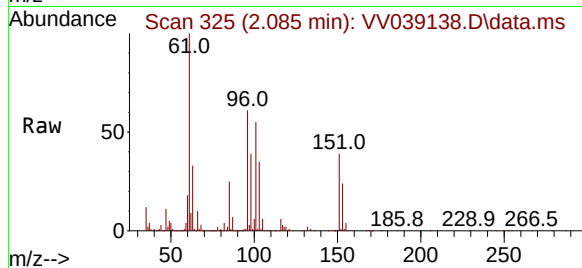




#9
1,1,2-Trichlorotrifluoroethane
Concen: 18.673 ug/l
RT: 2.085 min Scan# 31
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

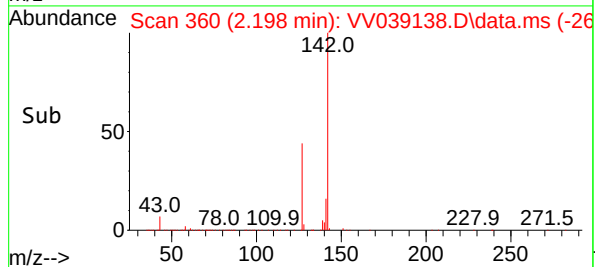
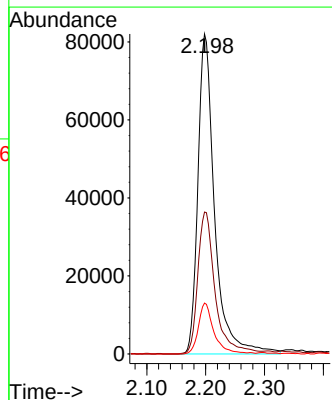
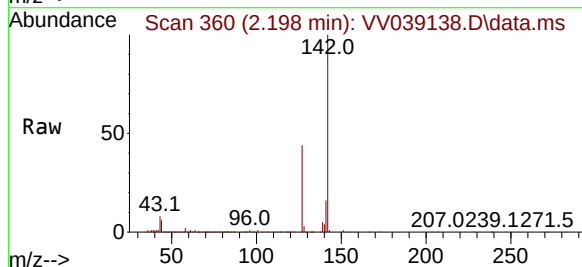
Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

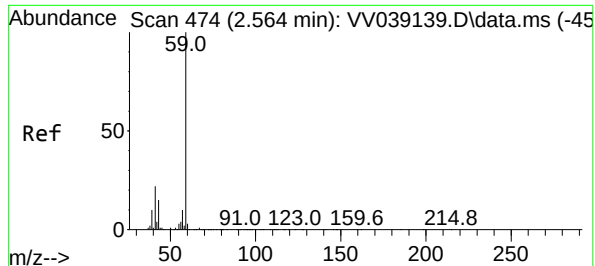
Tgt Ion:101 Resp: 159719
Ion Ratio Lower Upper
101 100
85 44.7 36.2 54.2
151 69.8 56.3 84.5



#10
Methyl Iodide
Concen: 19.880 ug/l
RT: 2.198 min Scan# 360
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion:142 Resp: 161932
Ion Ratio Lower Upper
142 100
127 46.1 36.3 54.5
141 14.8 11.2 16.8

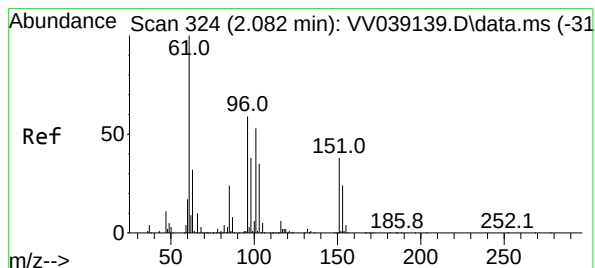
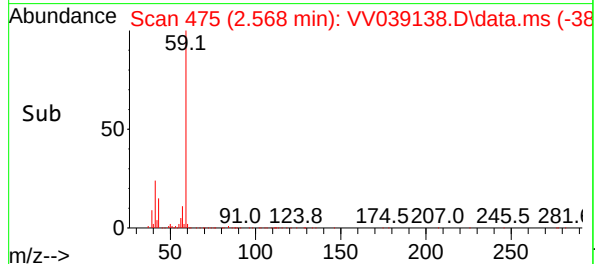
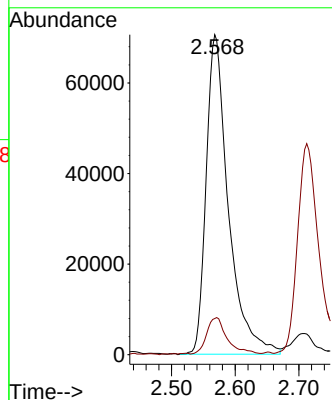
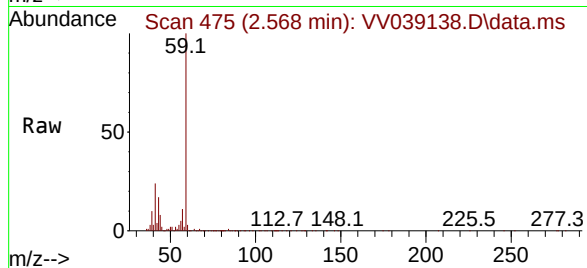




#11
Tert butyl alcohol
Concen: 102.509 ug/l
RT: 2.568 min Scan# 41
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

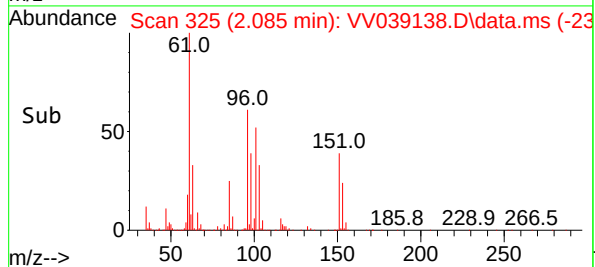
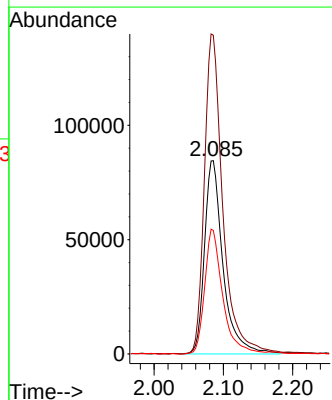
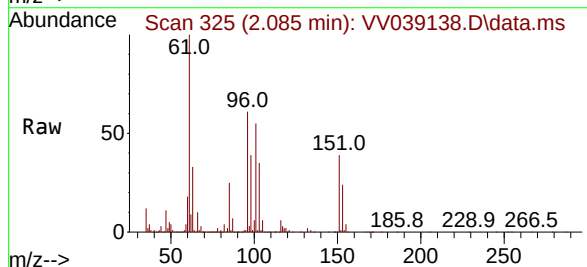
Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

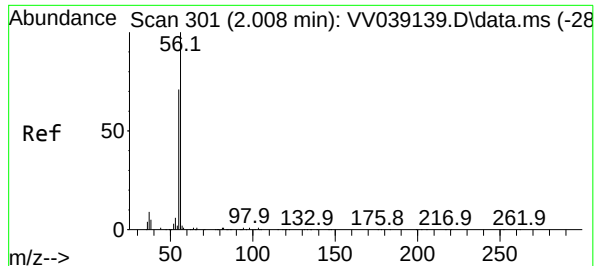
Tgt Ion: 59 Resp: 171137
Ion Ratio Lower Upper
59 100
57 10.5 7.8 11.8



#12
1,1-Dichloroethene
Concen: 19.131 ug/l
RT: 2.085 min Scan# 325
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 96 Resp: 157427
Ion Ratio Lower Upper
96 100
61 164.7 136.0 204.0
98 63.9 51.0 76.6

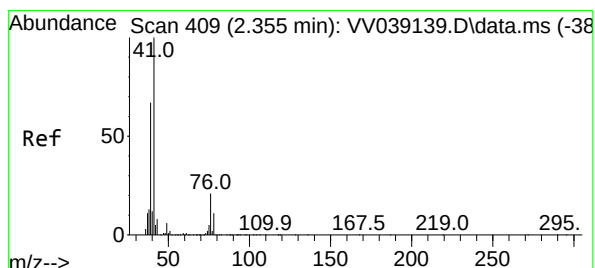
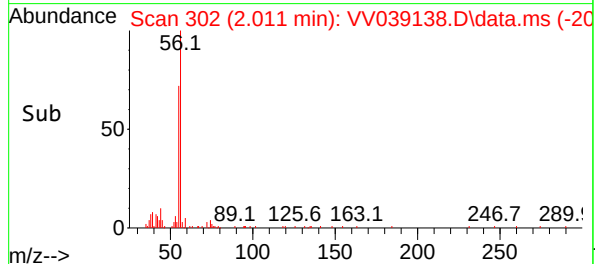
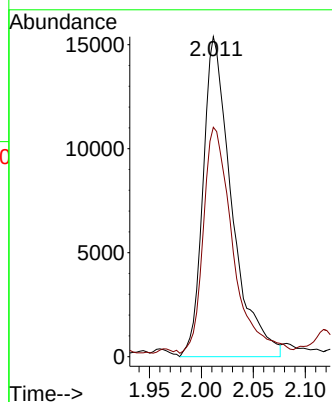
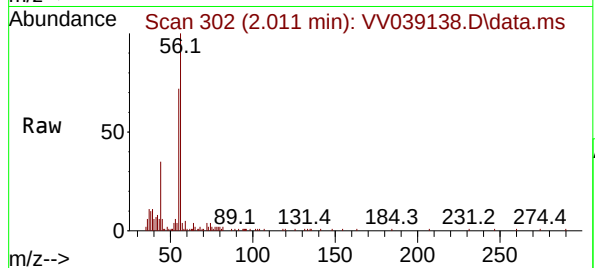




#13
Acrolein
Concen: 102.210 ug/l
RT: 2.011 min Scan# 301
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

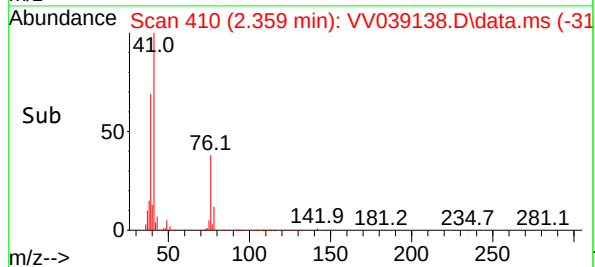
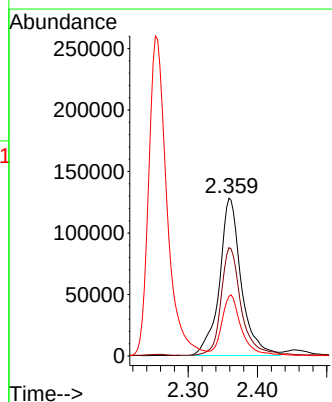
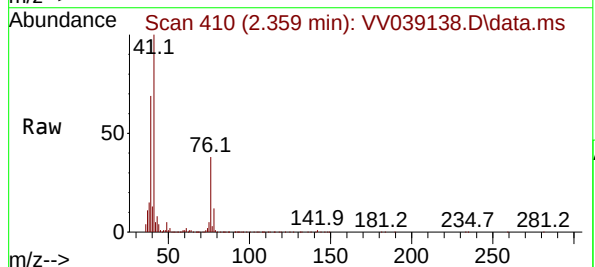
Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

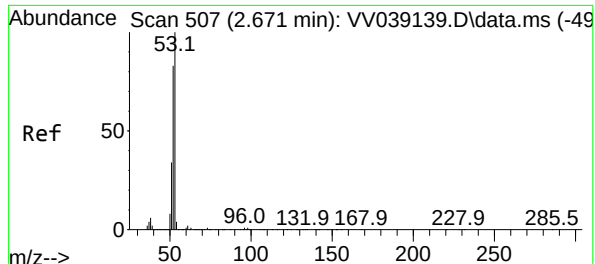
Tgt Ion: 56 Resp: 29609
Ion Ratio Lower Upper
56 100
55 72.5 56.2 84.4



#14
Allyl chloride
Concen: 19.062 ug/l
RT: 2.359 min Scan# 410
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 41 Resp: 280200
Ion Ratio Lower Upper
41 100
39 63.6 51.0 76.6
76 34.5 28.2 42.4





#15

Acrylonitrile

Concen: 94.179 ug/l

RT: 2.674 min Scan# 507

Delta R.T. 0.003 min

Lab File: VV039138.D

Acq: 22 Sep 2025 12:48

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC020

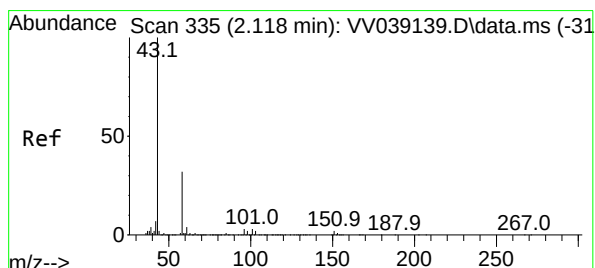
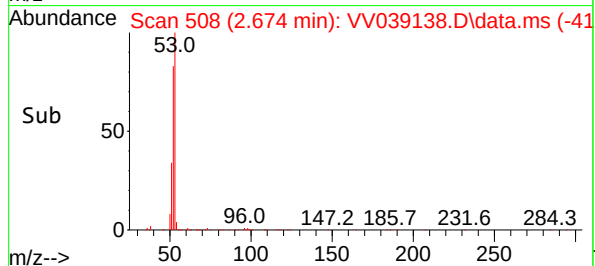
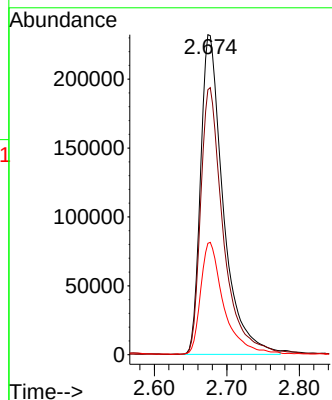
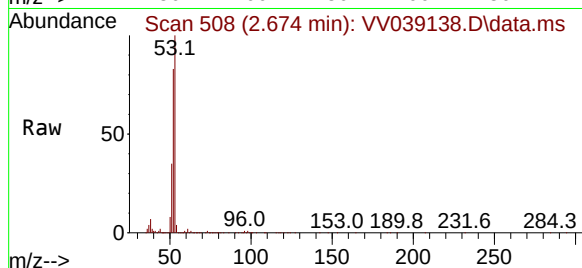
Tgt Ion: 53 Resp: 504022

Ion Ratio Lower Upper

53 100

52 83.5 66.1 99.1

51 35.7 28.5 42.7



#16

Acetone

Concen: 95.756 ug/l

RT: 2.121 min Scan# 336

Delta R.T. 0.003 min

Lab File: VV039138.D

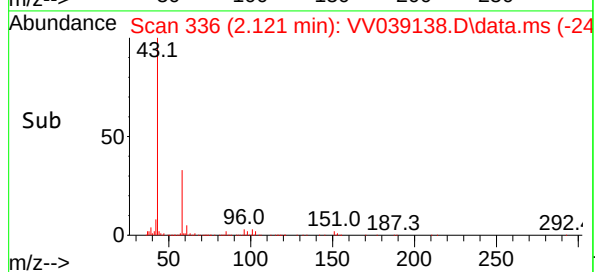
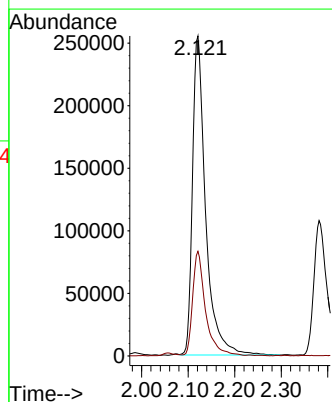
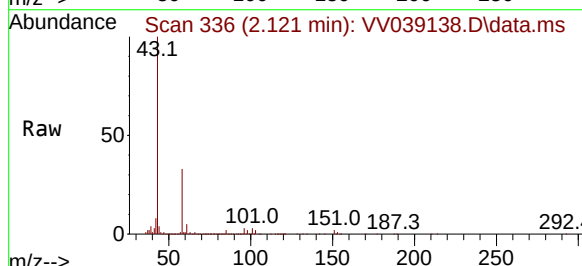
Acq: 22 Sep 2025 12:48

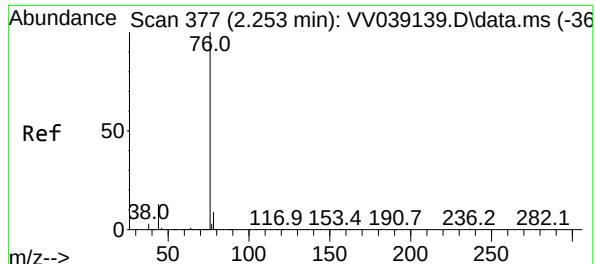
Tgt Ion: 43 Resp: 499669

Ion Ratio Lower Upper

43 100

58 32.7 25.8 38.6





#17

Carbon Disulfide

Concen: 18.923 ug/l

RT: 2.253 min Scan# 31

Delta R.T. 0.000 min

Lab File: VV039138.D

Acq: 22 Sep 2025 12:48

Instrument :

MSVOA_V

ClientSampleId :

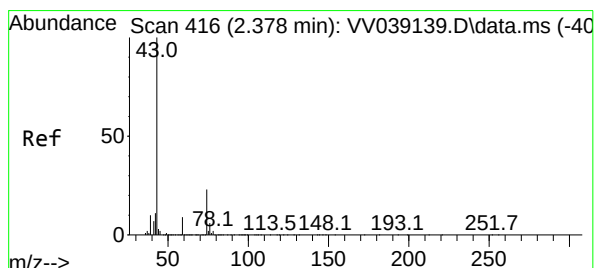
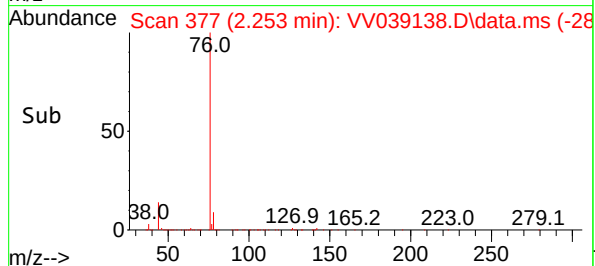
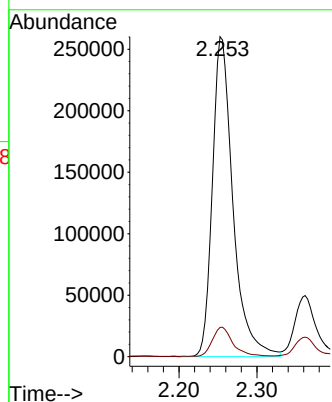
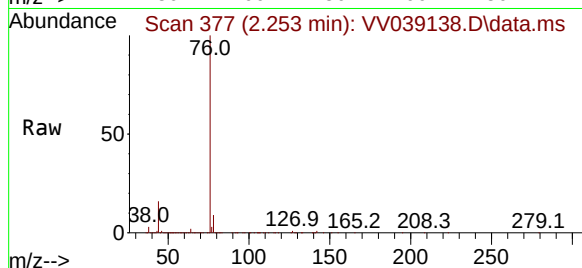
VSTDICC020

Tgt Ion: 76 Resp: 476229

Ion Ratio Lower Upper

76 100

78 9.1 7.4 11.0



#18

Methyl Acetate

Concen: 19.328 ug/l

RT: 2.381 min Scan# 417

Delta R.T. 0.003 min

Lab File: VV039138.D

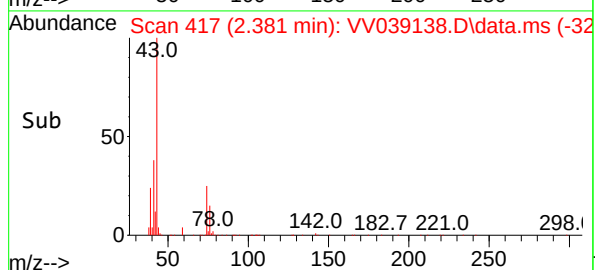
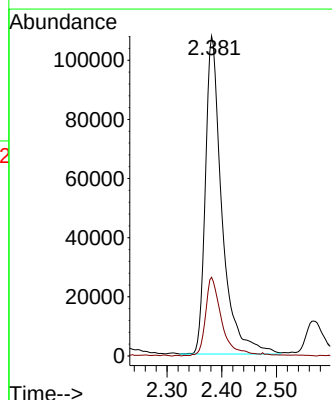
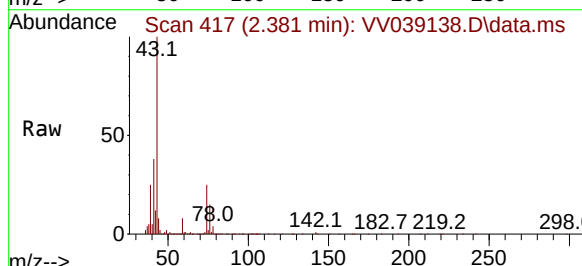
Acq: 22 Sep 2025 12:48

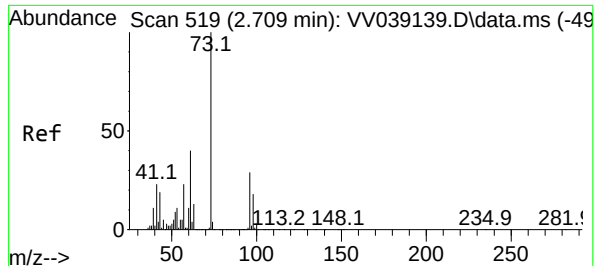
Tgt Ion: 43 Resp: 226208

Ion Ratio Lower Upper

43 100

74 24.2 18.6 27.8





#19

Methyl tert-butyl Ether

Concen: 19.027 ug/l

RT: 2.712 min Scan# 519

Delta R.T. 0.003 min

Lab File: VV039138.D

Acq: 22 Sep 2025 12:48

Instrument :

MSVOA_V

ClientSampleId :

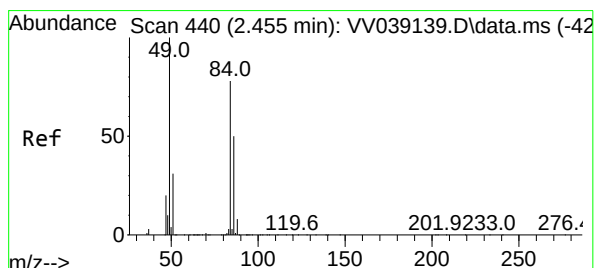
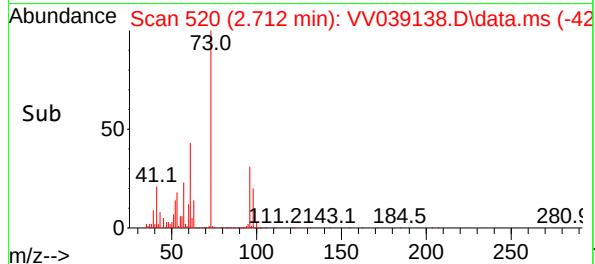
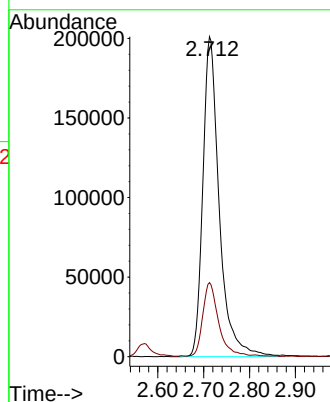
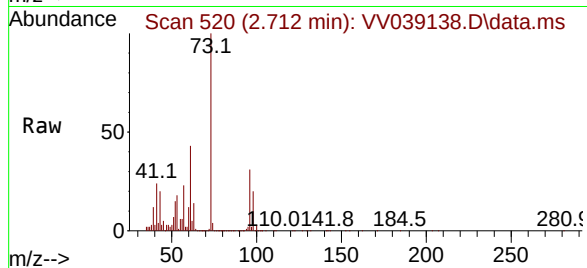
VSTDIC020

Tgt Ion: 73 Resp: 498918

Ion Ratio Lower Upper

73 100

57 23.1 18.2 27.4



#20

Methylene Chloride

Concen: 20.143 ug/l

RT: 2.458 min Scan# 441

Delta R.T. 0.003 min

Lab File: VV039138.D

Acq: 22 Sep 2025 12:48

Tgt Ion: 84 Resp: 185050

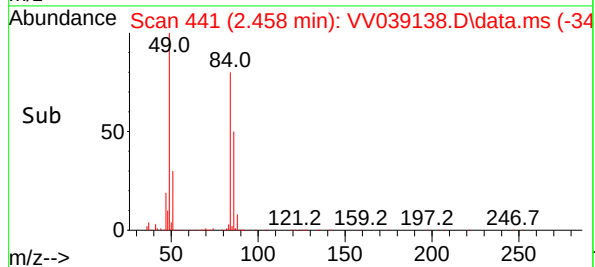
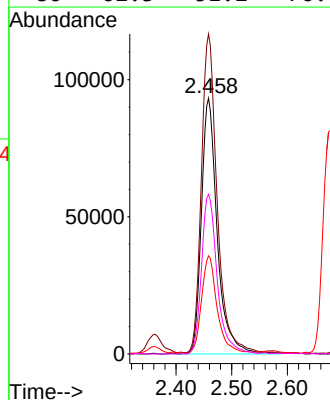
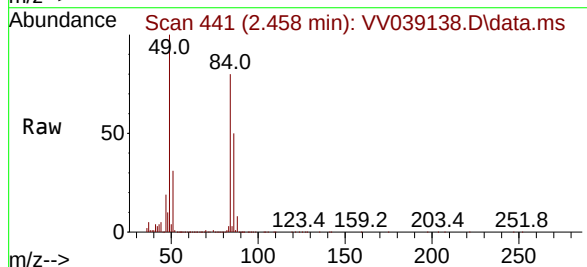
Ion Ratio Lower Upper

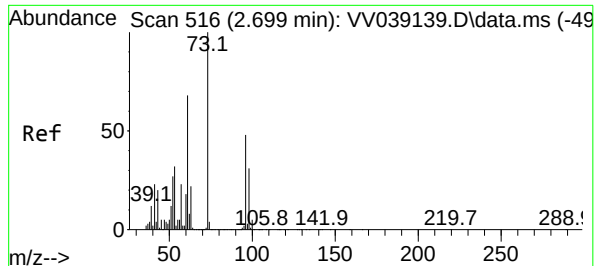
84 100

49 124.6 102.8 154.2

51 38.0 31.9 47.9

86 62.3 51.2 76.8

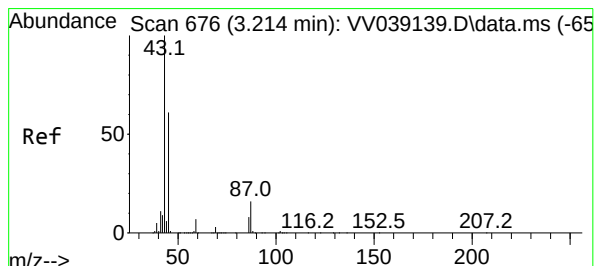
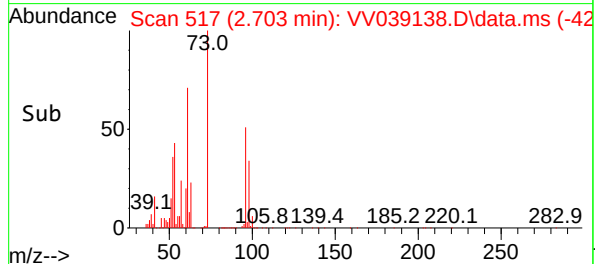
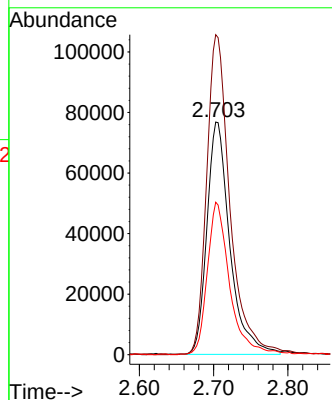
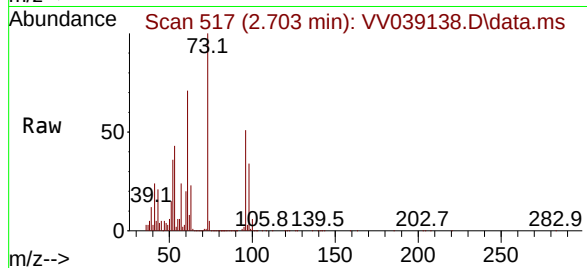




#21
trans-1,2-Dichloroethene
Concen: 18.823 ug/l
RT: 2.703 min Scan# 516
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

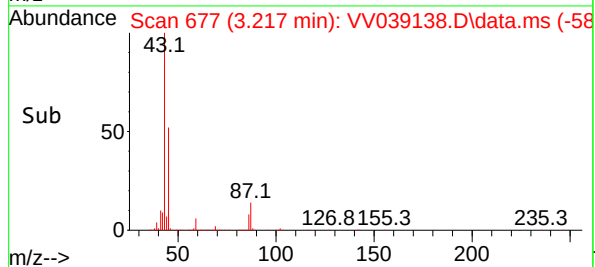
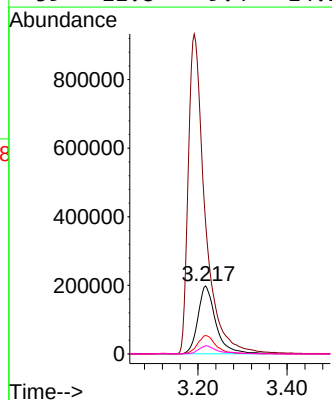
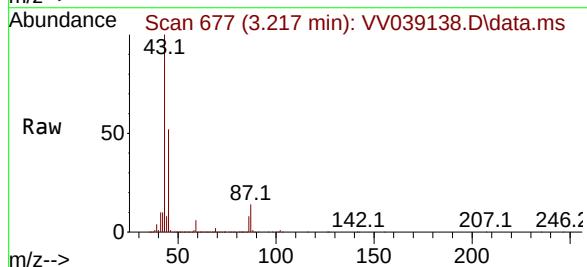
Instrument :
MSVOA_V
ClientSampleId :
VSTDIC020

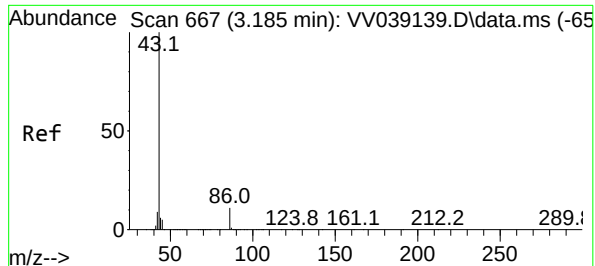
Tgt Ion: 96 Resp: 164898
Ion Ratio Lower Upper
96 100
61 137.4 112.8 169.2
98 65.4 51.1 76.7



#22
Diisopropyl ether
Concen: 19.640 ug/l
RT: 3.217 min Scan# 677
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 45 Resp: 552331
Ion Ratio Lower Upper
45 100
43 191.3 130.9 196.3
87 27.0 21.1 31.7
59 11.8 9.4 14.2





#23

Vinyl Acetate

Concen: 99.414 ug/l

RT: 3.191 min Scan# 669

Delta R.T. 0.006 min

Lab File: VV039138.D

Acq: 22 Sep 2025 12:48

Instrument :

MSVOA_V

ClientSampleId :

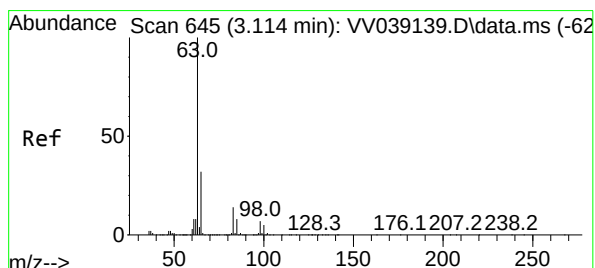
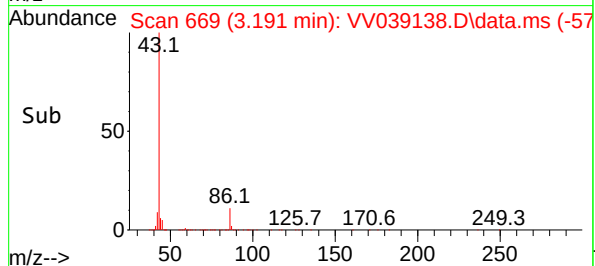
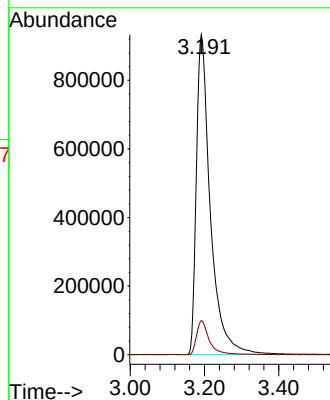
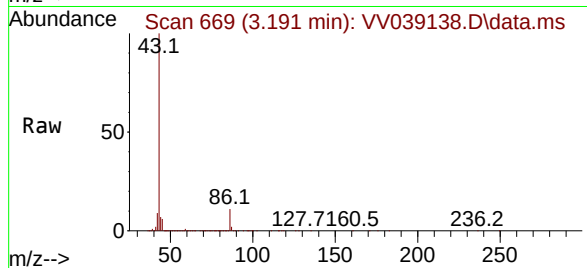
VSTDIC020

Tgt Ion: 43 Resp: 2445787

Ion Ratio Lower Upper

43 100

86 10.7 8.4 12.6



#24

1,1-Dichloroethane

Concen: 18.615 ug/l

RT: 3.118 min Scan# 646

Delta R.T. 0.003 min

Lab File: VV039138.D

Acq: 22 Sep 2025 12:48

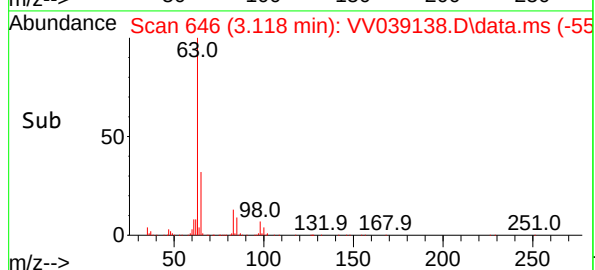
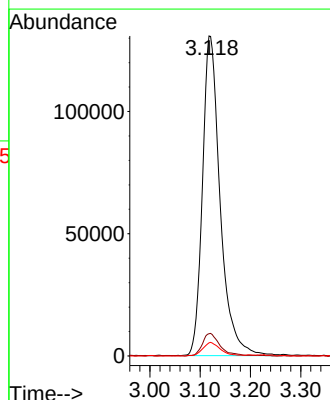
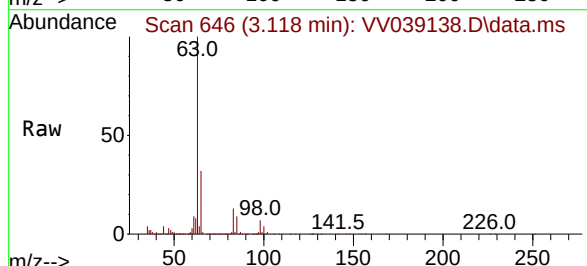
Tgt Ion: 63 Resp: 320146

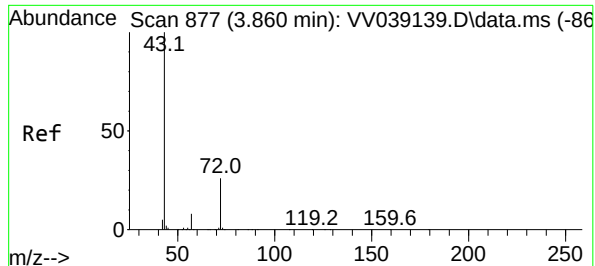
Ion Ratio Lower Upper

63 100

98 7.0 3.4 10.2

100 4.1 2.2 6.6





#25

2-Butanone

Concen: 102.519 ug/l

RT: 3.870 min Scan# 81

Delta R.T. 0.010 min

Lab File: VV039138.D

Acq: 22 Sep 2025 12:48

Instrument :

MSVOA_V

ClientSampleId :

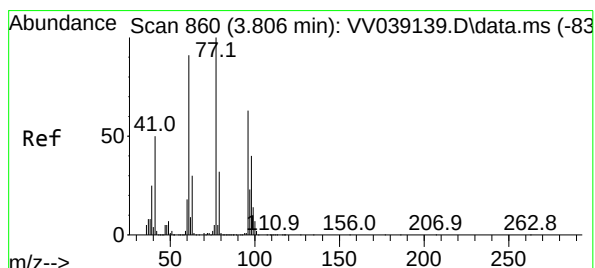
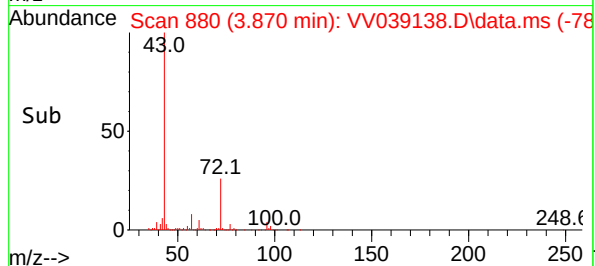
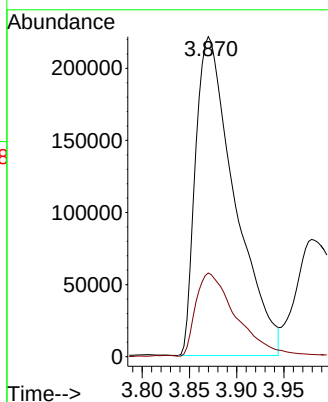
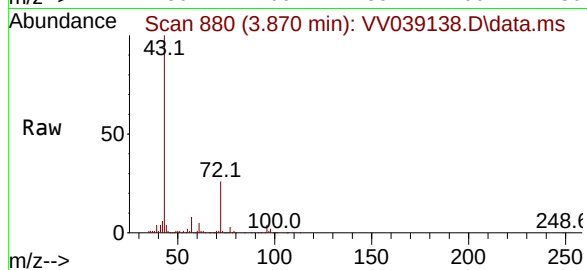
VSTDICC020

Tgt Ion: 43 Resp: 637413

Ion Ratio Lower Upper

43 100

72 26.1 21.0 31.6



#26

2,2-Dichloropropane

Concen: 18.326 ug/l

RT: 3.812 min Scan# 862

Delta R.T. 0.006 min

Lab File: VV039138.D

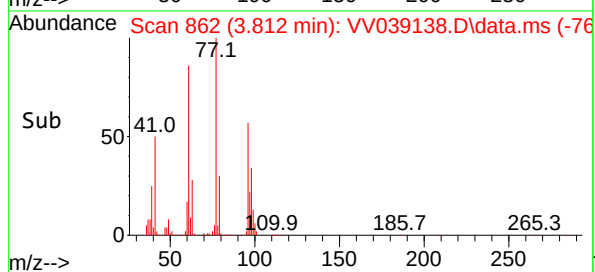
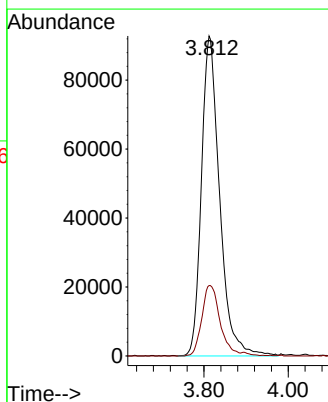
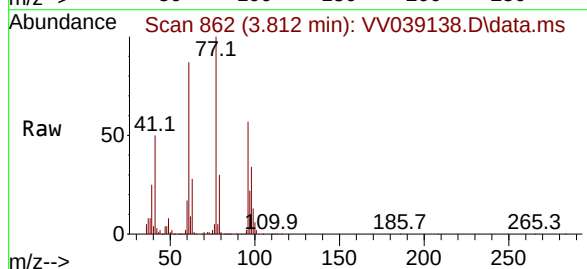
Acq: 22 Sep 2025 12:48

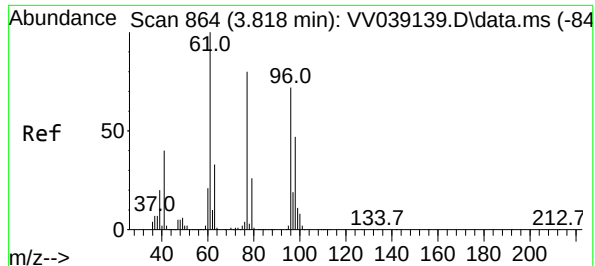
Tgt Ion: 77 Resp: 278362

Ion Ratio Lower Upper

77 100

97 21.9 11.6 34.7





#27

cis-1,2-Dichloroethene

Concen: 19.031 ug/l

RT: 3.822 min Scan# 865

Delta R.T. 0.003 min

Lab File: VV039138.D

Acq: 22 Sep 2025 12:48

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC020

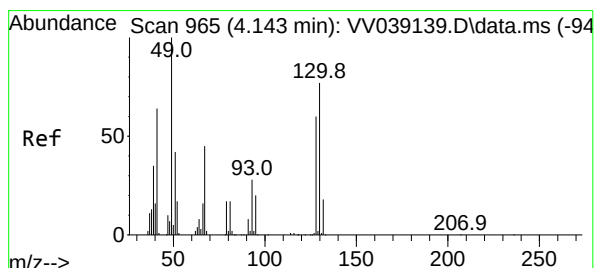
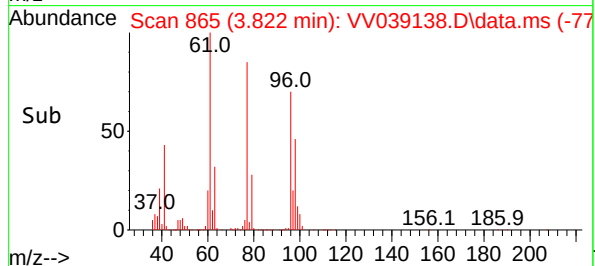
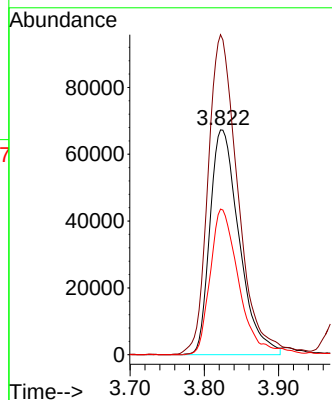
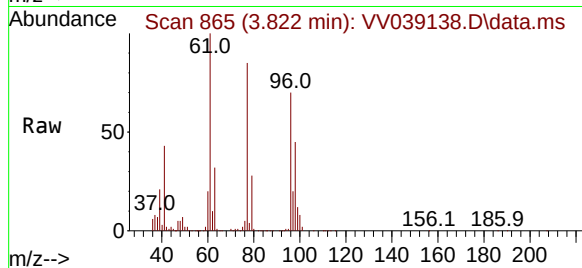
Tgt Ion: 96 Resp: 183867

Ion Ratio Lower Upper

96 100

61 146.5 0.0 286.4

98 63.8 0.0 126.6



#28

Bromochloromethane

Concen: 21.654 ug/l

RT: 4.146 min Scan# 966

Delta R.T. 0.003 min

Lab File: VV039138.D

Acq: 22 Sep 2025 12:48

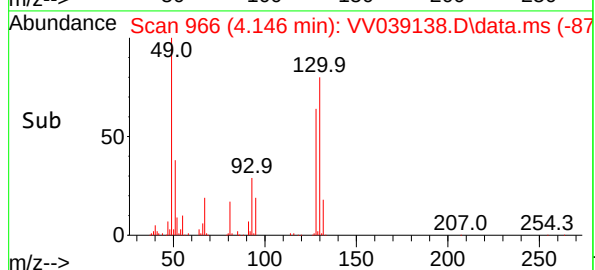
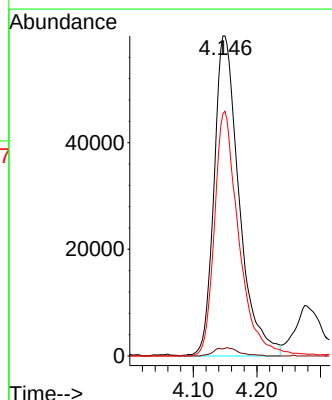
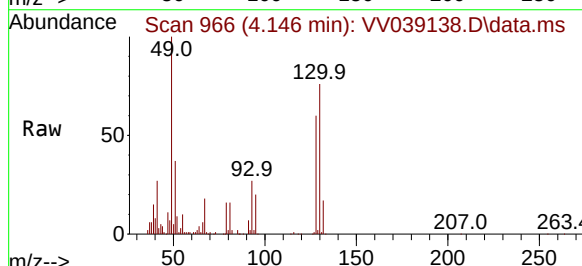
Tgt Ion: 49 Resp: 164406

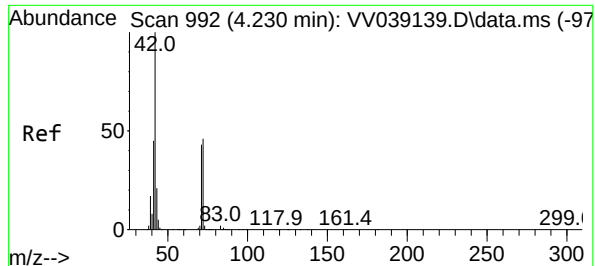
Ion Ratio Lower Upper

49 100

129 1.0 0.0 4.2

130 74.3 60.2 90.2





#29

Tetrahydrofuran

Concen: 102.491 ug/l

RT: 4.240 min Scan# 992

Delta R.T. 0.010 min

Lab File: VV039138.D

Acq: 22 Sep 2025 12:48

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC020

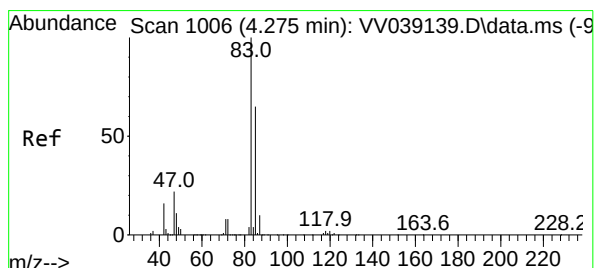
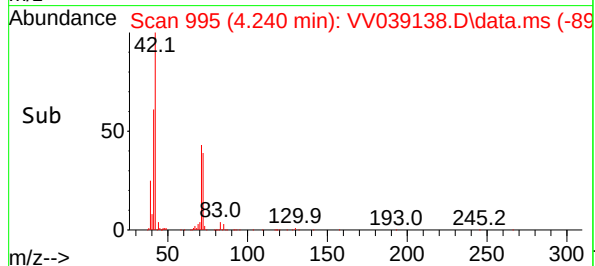
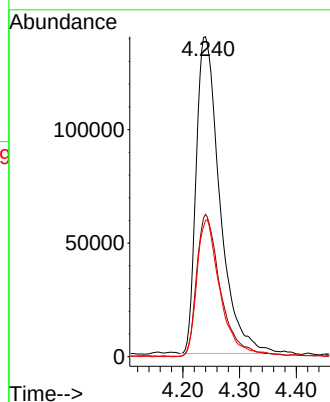
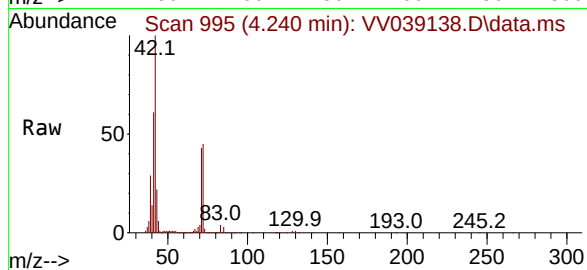
Tgt Ion: 42 Resp: 405777

Ion Ratio Lower Upper

42 100

72 45.2 36.3 54.5

71 42.2 34.3 51.5



#30

Chloroform

Concen: 19.083 ug/l

RT: 4.281 min Scan# 1008

Delta R.T. 0.006 min

Lab File: VV039138.D

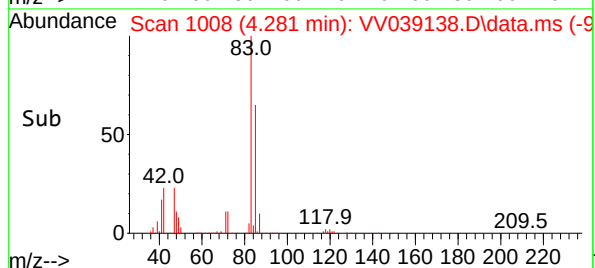
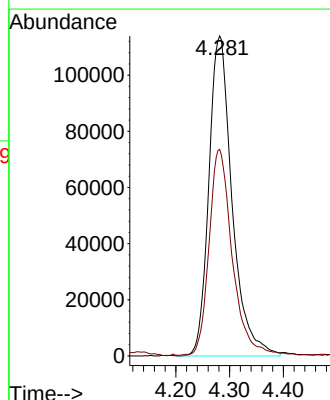
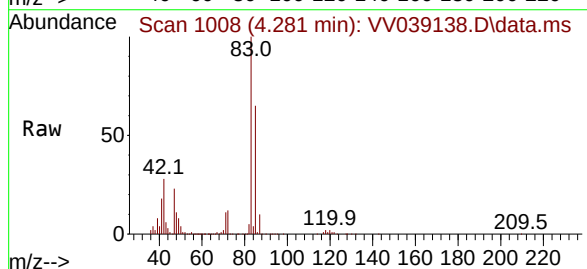
Acq: 22 Sep 2025 12:48

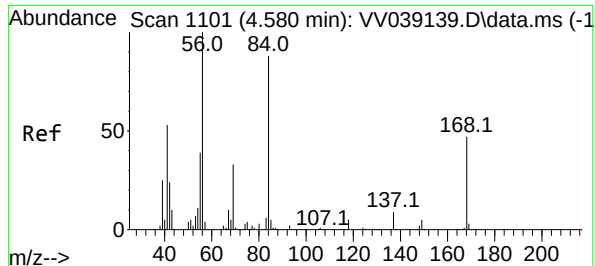
Tgt Ion: 83 Resp: 342700

Ion Ratio Lower Upper

83 100

85 64.3 52.1 78.1





#31

Cyclohexane

Concen: 18.934 ug/l

RT: 4.587 min Scan# 1101

Delta R.T. 0.006 min

Lab File: VV039138.D

Acq: 22 Sep 2025 12:48

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC020

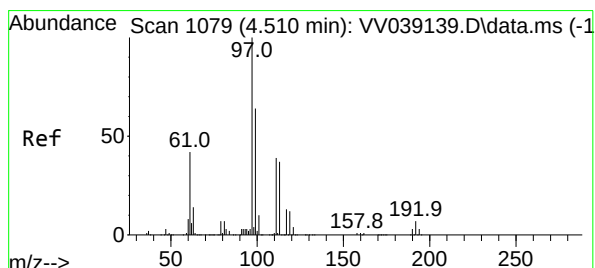
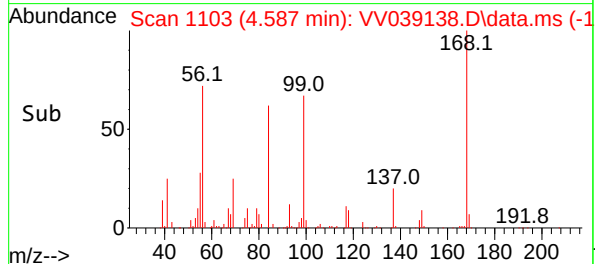
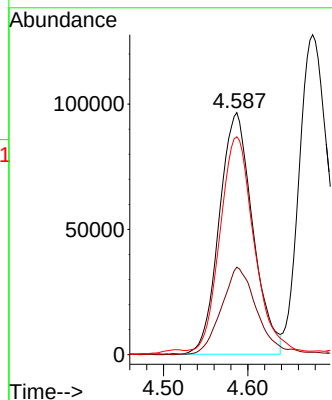
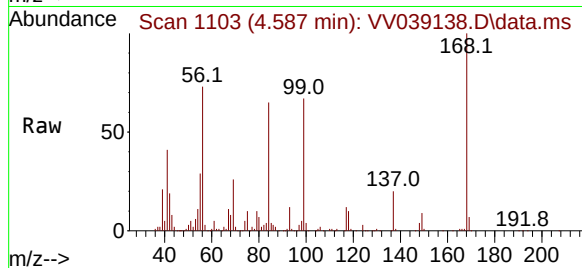
Tgt Ion: 56 Resp: 266753

Ion Ratio Lower Upper

56 100

69 36.0 26.2 39.2

84 88.2 70.3 105.5



#32

1,1,1-Trichloroethane

Concen: 18.546 ug/l

RT: 4.516 min Scan# 1081

Delta R.T. 0.007 min

Lab File: VV039138.D

Acq: 22 Sep 2025 12:48

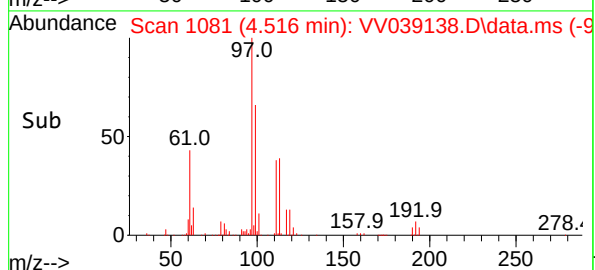
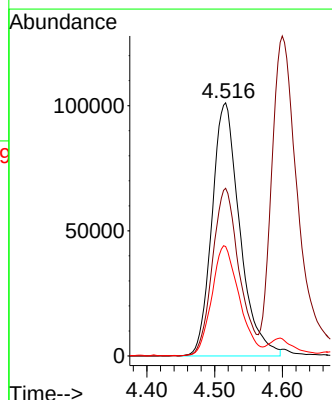
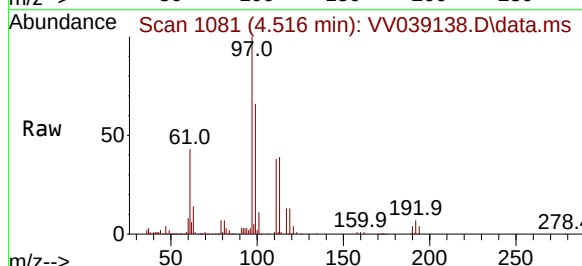
Tgt Ion: 97 Resp: 288341

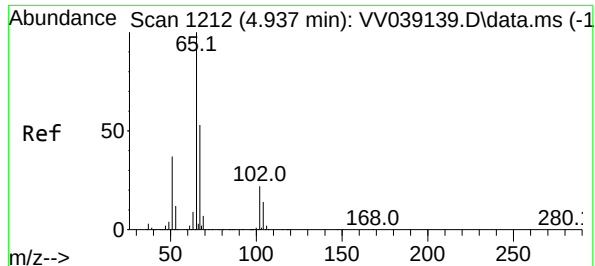
Ion Ratio Lower Upper

97 100

99 63.5 49.6 74.4

61 43.1 34.5 51.7





#33

1,2-Dichloroethane-d4

Concen: 18.317 ug/l

RT: 4.947 min Scan# 11

Delta R.T. 0.010 min

Lab File: VV039138.D

Acq: 22 Sep 2025 12:48

Instrument :

MSVOA_V

ClientSampleId :

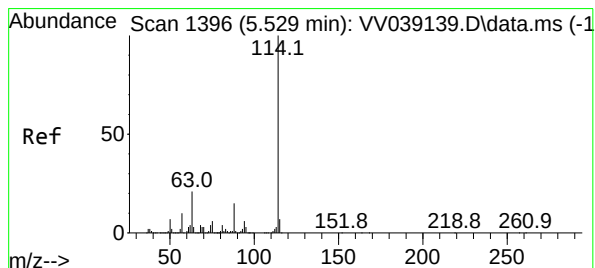
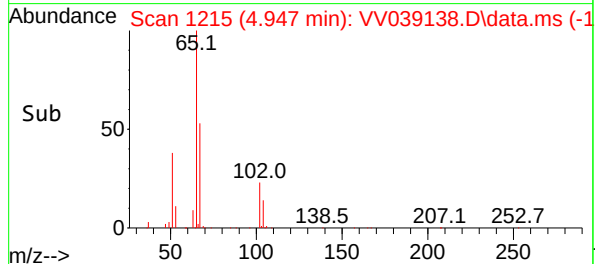
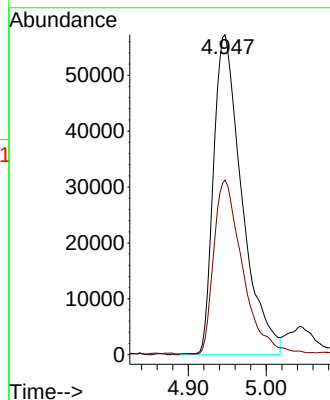
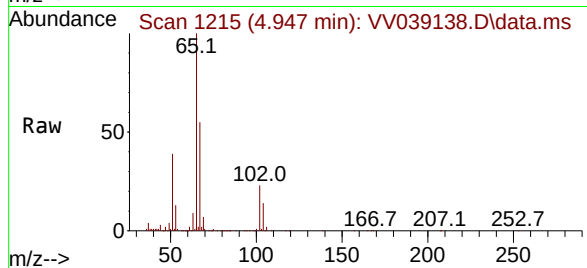
VSTDICC020

Tgt Ion: 65 Resp: 144689

Ion Ratio Lower Upper

65 100

67 55.2 0.0 107.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.532 min Scan# 1397

Delta R.T. 0.003 min

Lab File: VV039138.D

Acq: 22 Sep 2025 12:48

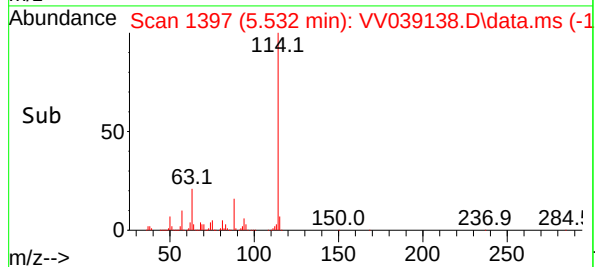
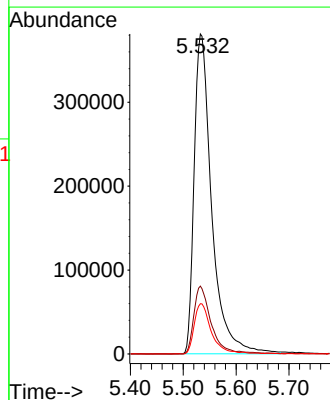
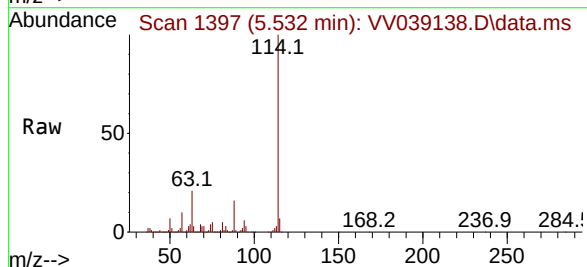
Tgt Ion: 114 Resp: 880963

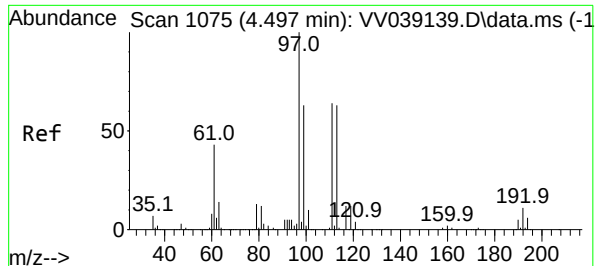
Ion Ratio Lower Upper

114 100

63 21.2 0.0 42.6

88 15.7 0.0 30.8

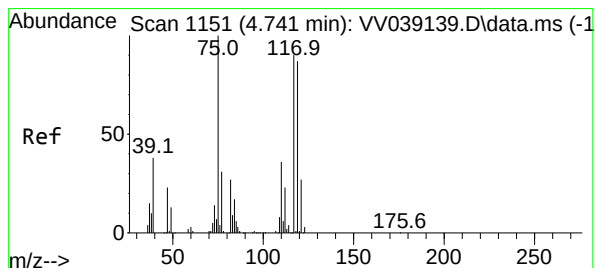
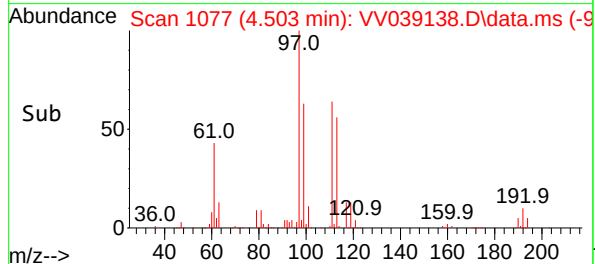
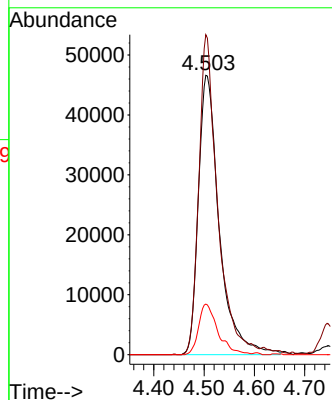
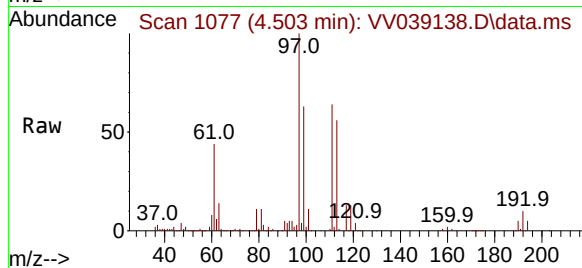




#35
Dibromofluoromethane
Concen: 19.014 ug/l
RT: 4.503 min Scan# 1107
Delta R.T. 0.006 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

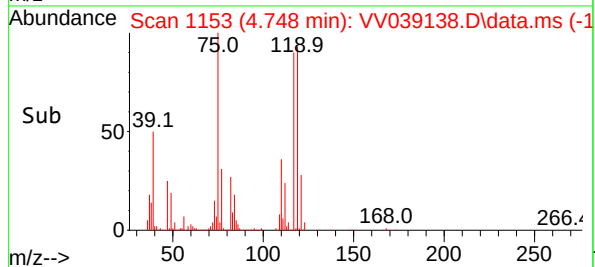
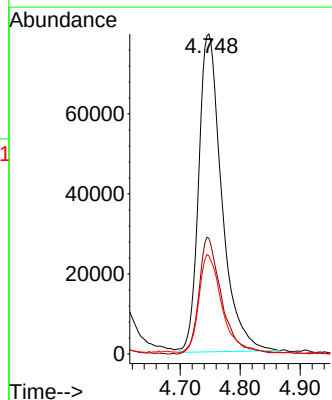
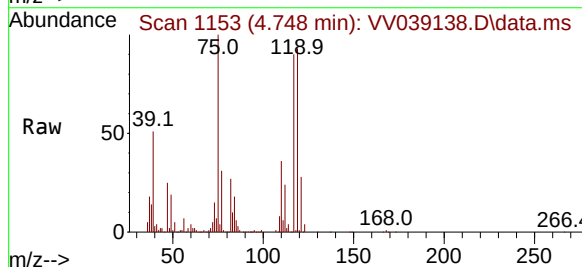
Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

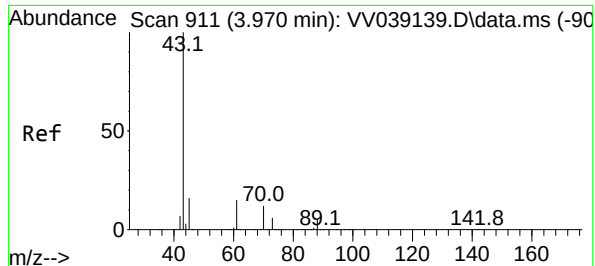
Tgt Ion:113 Resp: 134662
Ion Ratio Lower Upper
113 100
111 103.1 82.4 123.6
192 16.7 13.8 20.8



#36
1,1-Dichloropropene
Concen: 19.734 ug/l
RT: 4.748 min Scan# 1153
Delta R.T. 0.007 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 75 Resp: 212835
Ion Ratio Lower Upper
75 100
110 36.0 18.1 54.1
77 30.3 24.8 37.2





#37

Ethyl Acetate

Concen: 19.696 ug/l

RT: 3.979 min Scan# 911

Delta R.T. 0.009 min

Lab File: VV039138.D

Acq: 22 Sep 2025 12:48

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC020

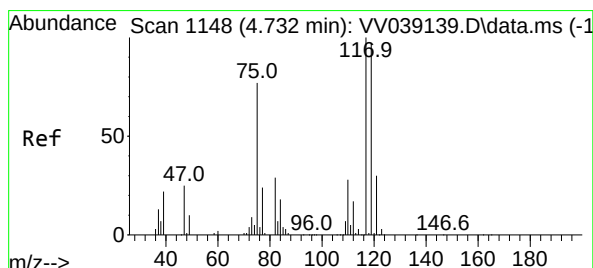
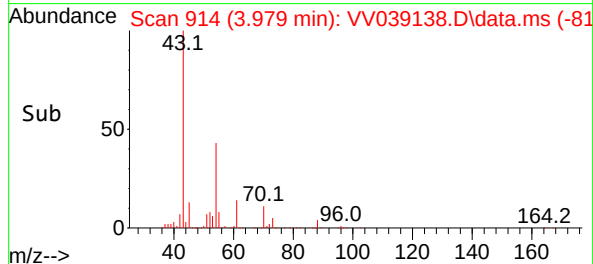
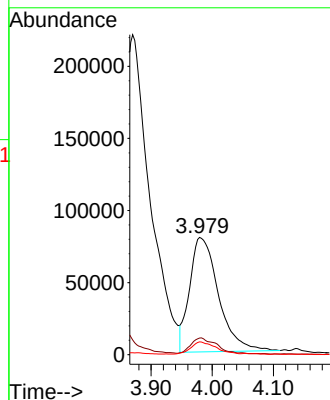
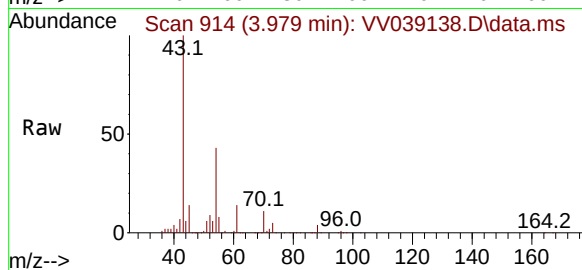
Tgt Ion: 43 Resp: 260591

Ion Ratio Lower Upper

43 100

61 11.3 10.3 15.5

70 9.0 8.0 12.0



#38

Carbon Tetrachloride

Concen: 19.252 ug/l

RT: 4.735 min Scan# 1149

Delta R.T. 0.003 min

Lab File: VV039138.D

Acq: 22 Sep 2025 12:48

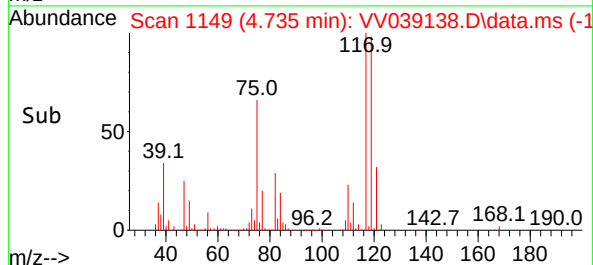
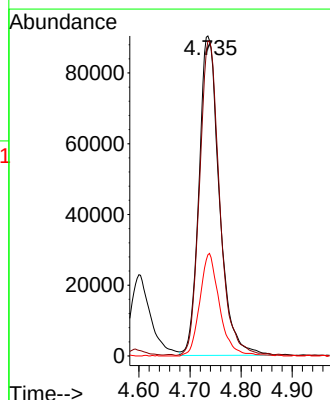
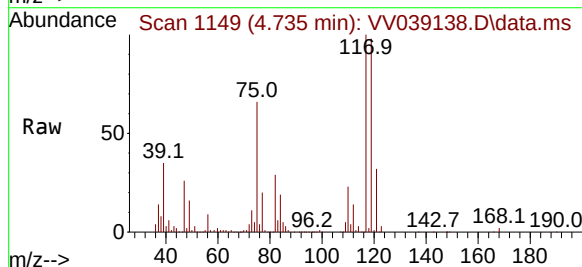
Tgt Ion: 117 Resp: 250103

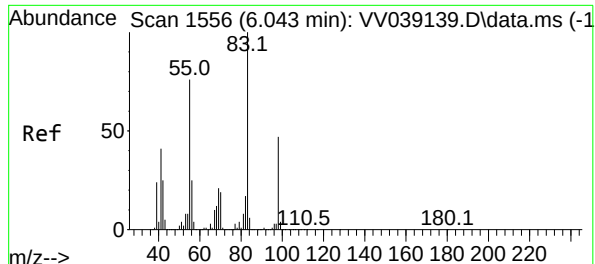
Ion Ratio Lower Upper

117 100

119 98.1 77.2 115.8

121 31.7 24.2 36.2





#39

Methylcyclohexane

Concen: 19.619 ug/l

RT: 6.047 min Scan# 11

Delta R.T. 0.004 min

Lab File: VV039138.D

Acq: 22 Sep 2025 12:48

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC020

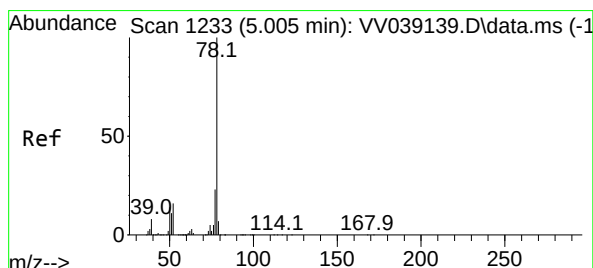
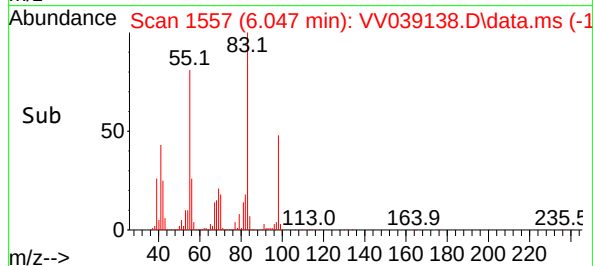
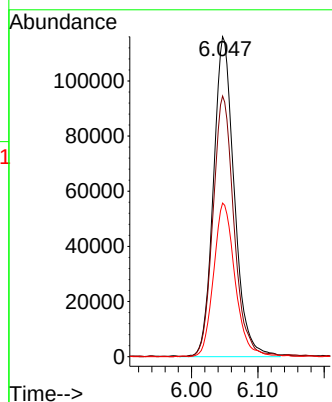
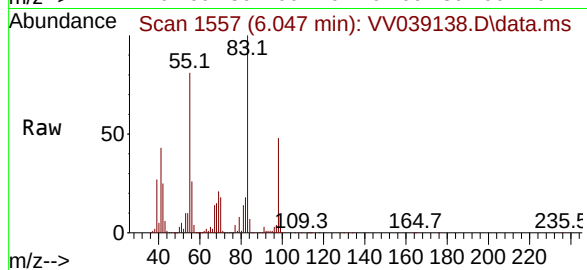
Tgt Ion: 83 Resp: 253693

Ion Ratio Lower Upper

83 100

55 81.4 60.5 90.7

98 48.0 37.8 56.6



#40

Benzene

Concen: 19.994 ug/l

RT: 5.011 min Scan# 1235

Delta R.T. 0.006 min

Lab File: VV039138.D

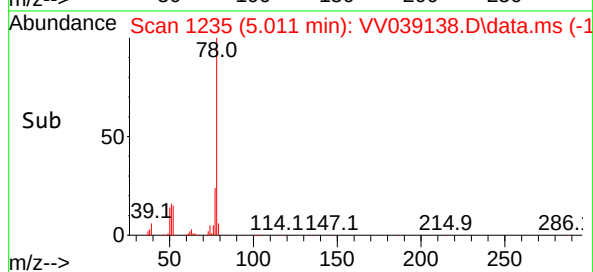
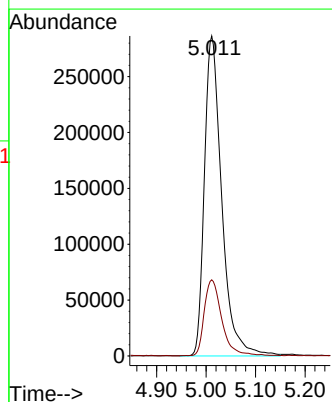
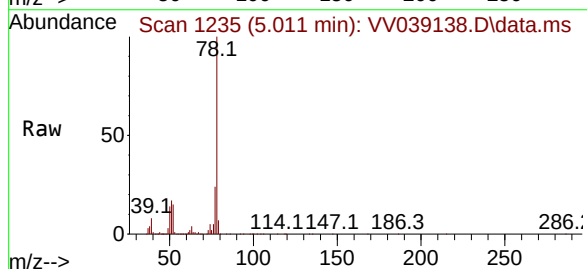
Acq: 22 Sep 2025 12:48

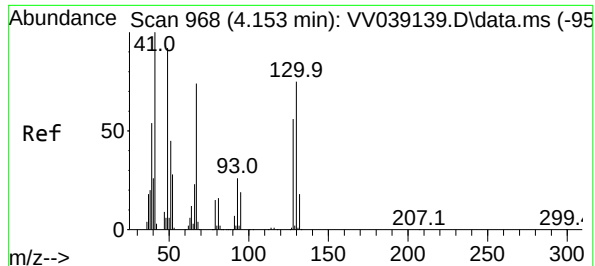
Tgt Ion: 78 Resp: 697141

Ion Ratio Lower Upper

78 100

77 23.7 18.7 28.1

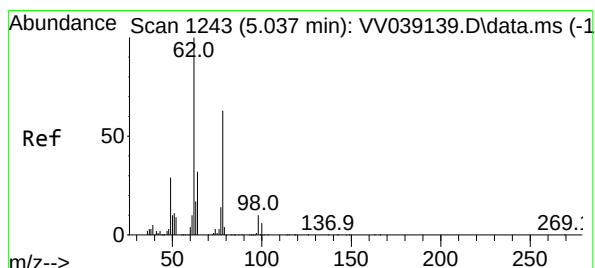
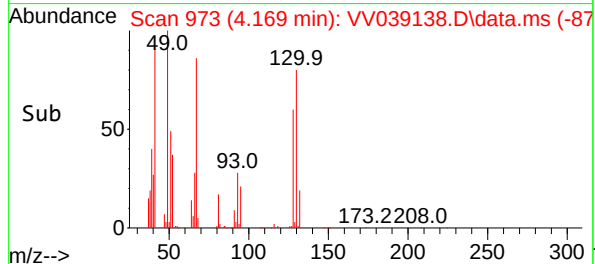
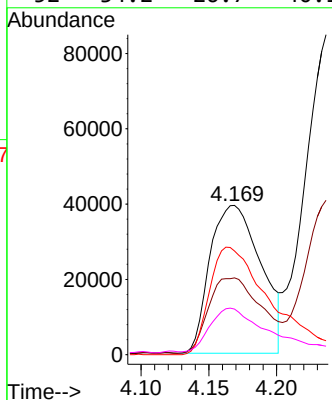
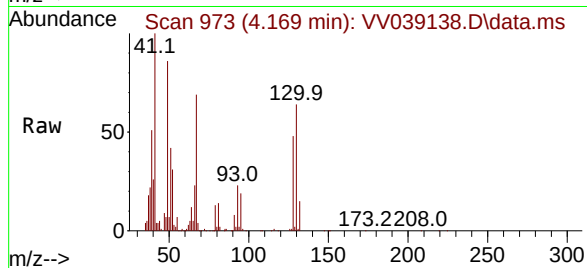




#41
Methacrylonitrile
Concen: 18.721 ug/l
RT: 4.169 min Scan# 91
Delta R.T. 0.016 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

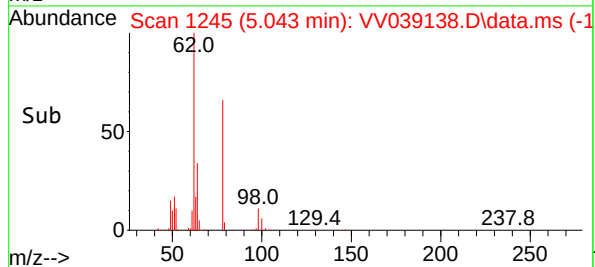
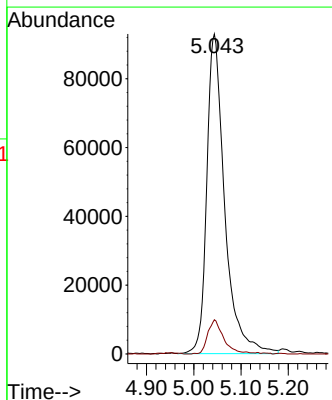
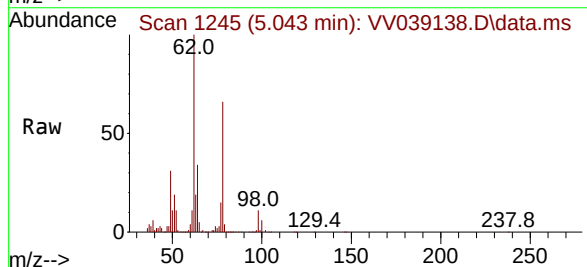
Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

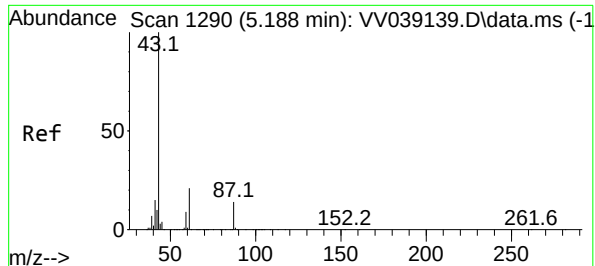
Tgt Ion: 41 Resp: 102755
Ion Ratio Lower Upper
41 100
39 53.8 42.2 63.2
67 92.1 67.9 101.9
52 34.2 26.7 40.1



#42
1,2-Dichloroethane
Concen: 20.012 ug/l
RT: 5.043 min Scan# 1245
Delta R.T. 0.006 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 62 Resp: 244487
Ion Ratio Lower Upper
62 100
98 9.3 0.0 19.2





#43

Isopropyl Acetate

Concen: 19.889 ug/l

RT: 5.195 min Scan# 11

Delta R.T. 0.006 min

Lab File: VV039138.D

Acq: 22 Sep 2025 12:48

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC020

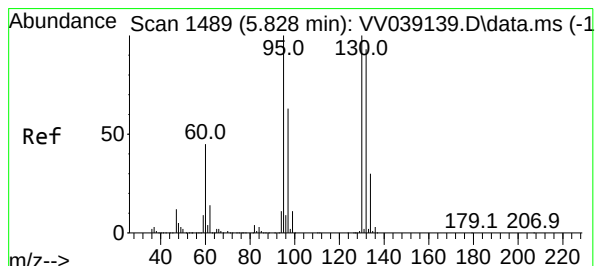
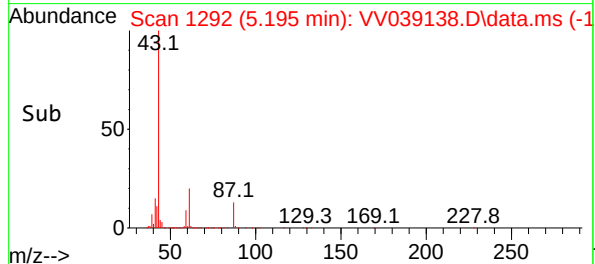
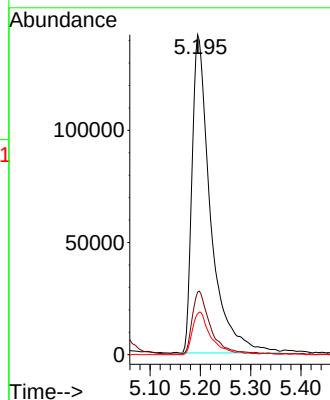
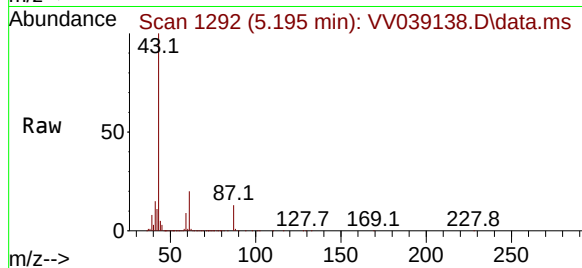
Tgt Ion: 43 Resp: 362512

Ion Ratio Lower Upper

43 100

61 19.1 15.9 23.9

87 12.9 11.0 16.6



#44

Trichloroethene

Concen: 19.972 ug/l

RT: 5.831 min Scan# 1490

Delta R.T. 0.003 min

Lab File: VV039138.D

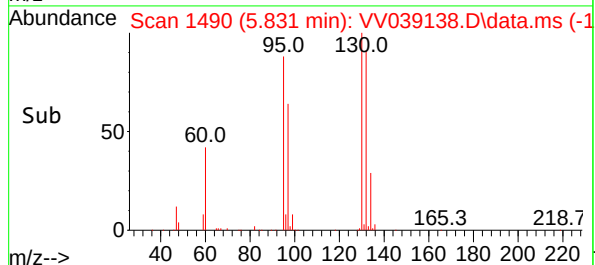
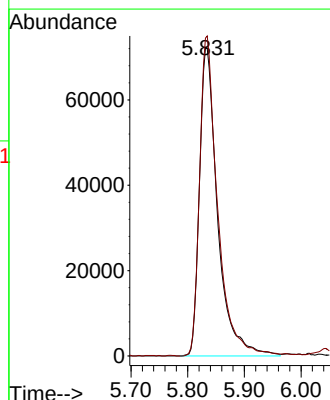
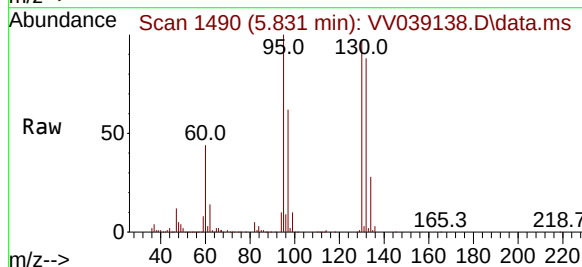
Acq: 22 Sep 2025 12:48

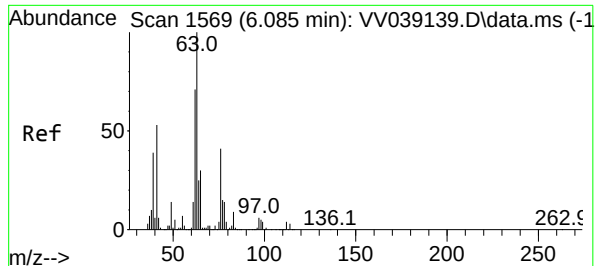
Tgt Ion: 130 Resp: 160692

Ion Ratio Lower Upper

130 100

95 103.2 0.0 199.2





#45

1,2-Dichloropropane

Concen: 21.087 ug/l

RT: 6.092 min Scan# 1571

Delta R.T. 0.006 min

Lab File: VV039138.D

Acq: 22 Sep 2025 12:48

Instrument :

MSVOA_V

ClientSampleId :

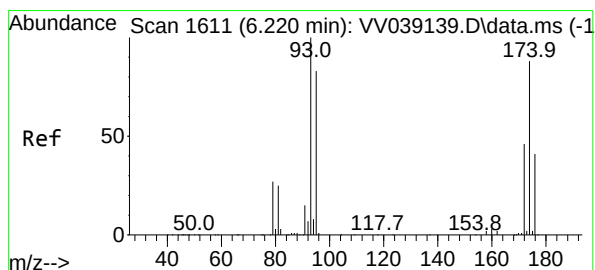
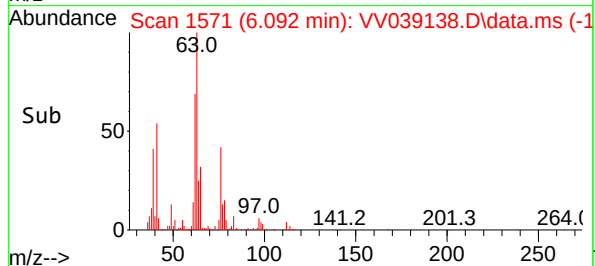
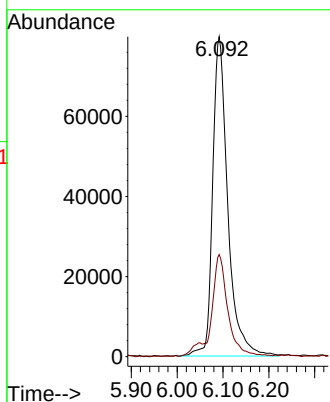
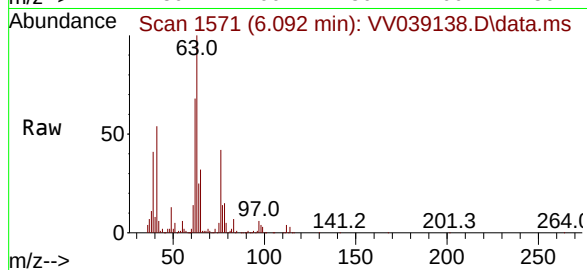
VSTDIC020

Tgt Ion: 63 Resp: 182757

Ion Ratio Lower Upper

63 100

65 31.8 23.7 35.5



#46

Dibromomethane

Concen: 19.495 ug/l

RT: 6.227 min Scan# 1613

Delta R.T. 0.006 min

Lab File: VV039138.D

Acq: 22 Sep 2025 12:48

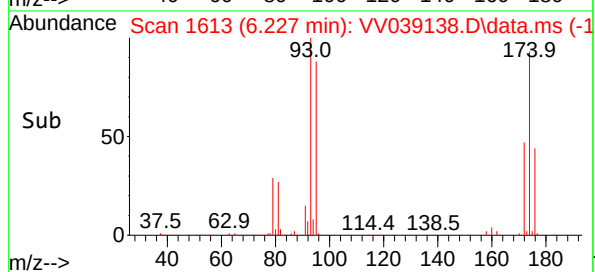
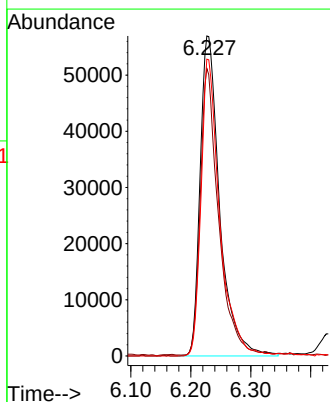
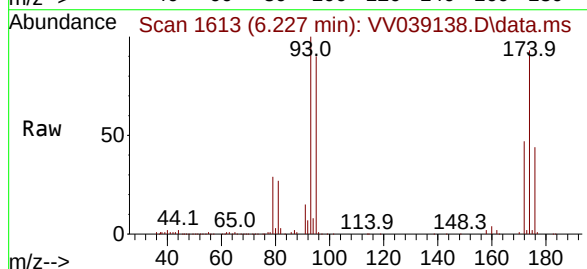
Tgt Ion: 93 Resp: 129319

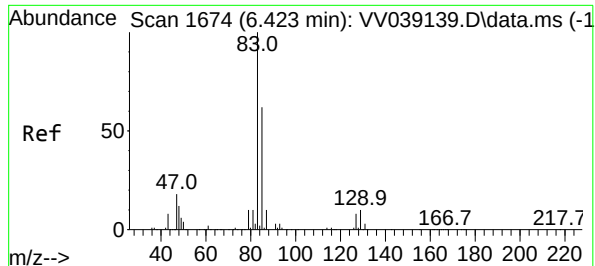
Ion Ratio Lower Upper

93 100

95 83.4 65.5 98.3

174 88.9 69.0 103.4





#47

Bromodichloromethane

Concen: 19.635 ug/l

RT: 6.429 min Scan# 1

Delta R.T. 0.006 min

Lab File: VV039138.D

Acq: 22 Sep 2025 12:48

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC020

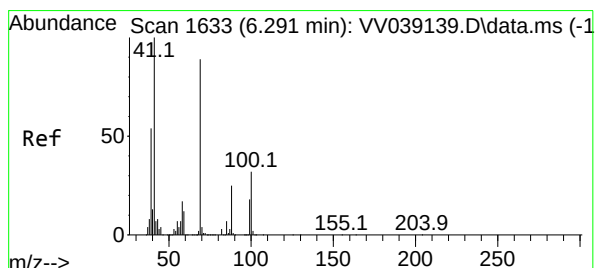
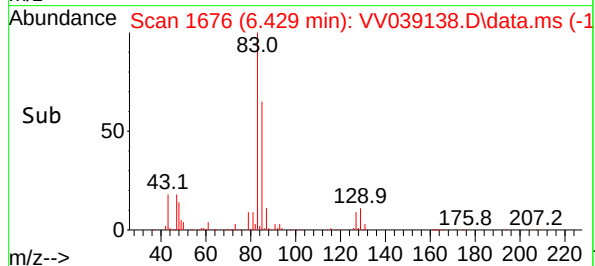
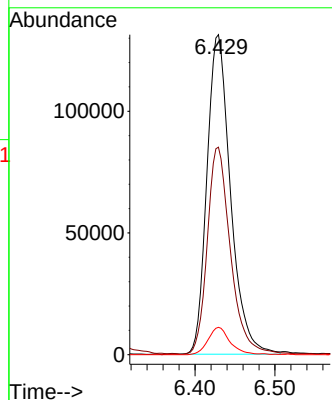
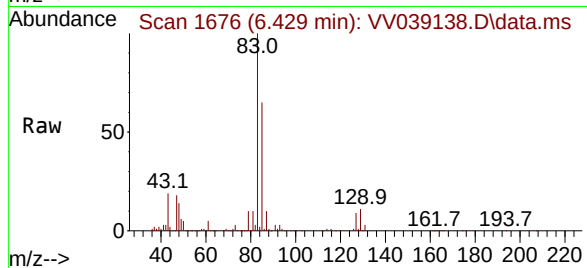
Tgt Ion: 83 Resp: 269262

Ion Ratio Lower Upper

83 100

85 64.7 49.7 74.5

127 8.6 6.6 9.8



#48

Methyl methacrylate

Concen: 18.977 ug/l

RT: 6.301 min Scan# 1636

Delta R.T. 0.010 min

Lab File: VV039138.D

Acq: 22 Sep 2025 12:48

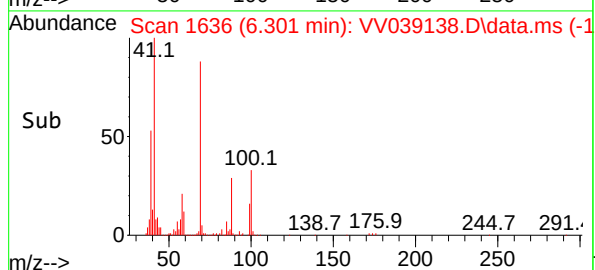
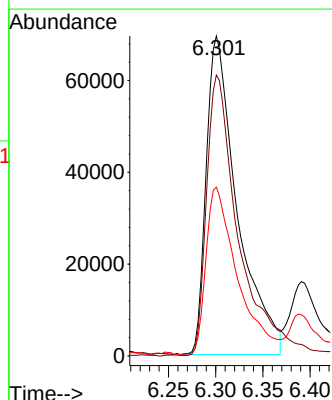
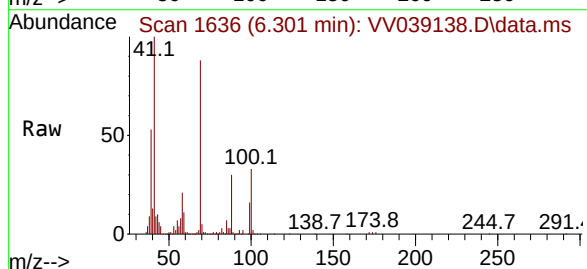
Tgt Ion: 41 Resp: 158251

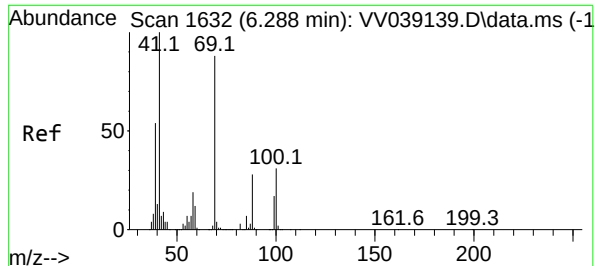
Ion Ratio Lower Upper

41 100

69 91.6 72.4 108.6

39 53.4 42.5 63.7





#49

1,4-Dioxane

Concen: 365.172 ug/l

RT: 6.294 min Scan# 1

Delta R.T. 0.006 min

Lab File: VV039138.D

Acq: 22 Sep 2025 12:48

Instrument :

MSVOA_V

ClientSampleId :

VSTDICC020

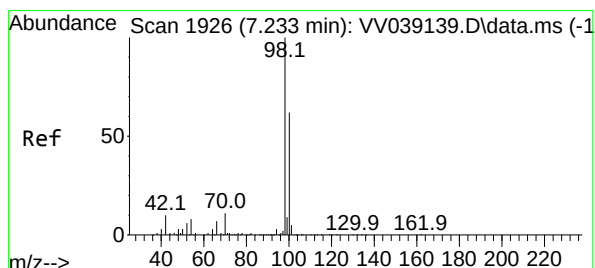
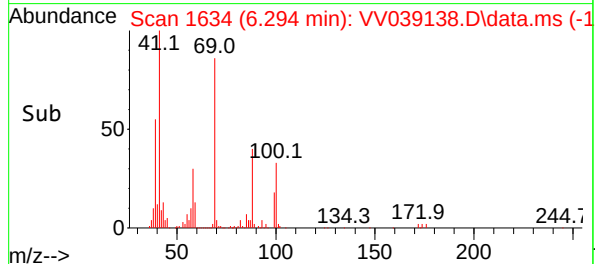
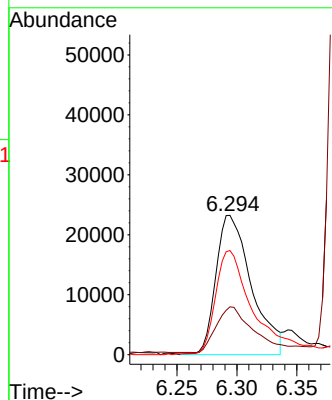
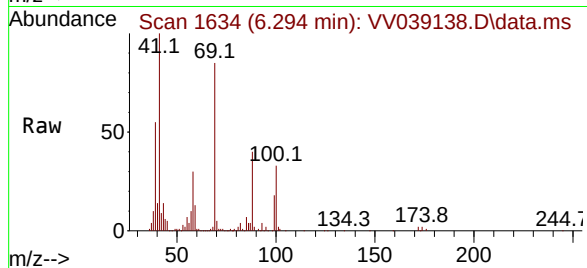
Tgt Ion: 88 Resp: 47860

Ion Ratio Lower Upper

88 100

43 36.7 25.1 37.7

58 80.9 53.6 80.4#



#50

Toluene-d8

Concen: 18.501 ug/l

RT: 7.236 min Scan# 1927

Delta R.T. 0.003 min

Lab File: VV039138.D

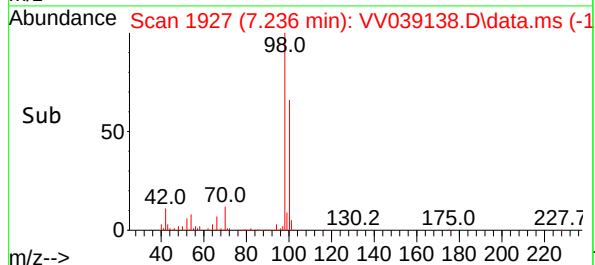
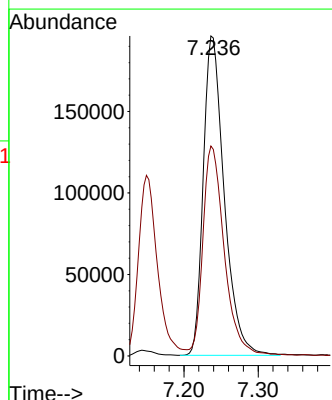
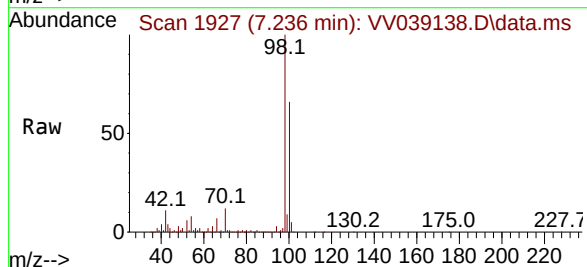
Acq: 22 Sep 2025 12:48

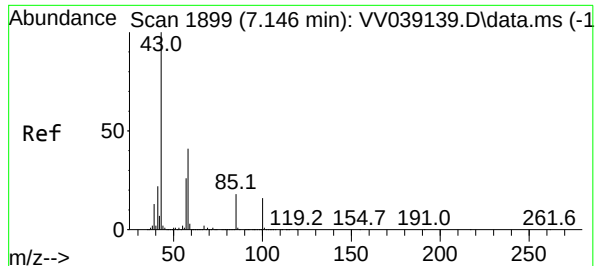
Tgt Ion: 98 Resp: 384827

Ion Ratio Lower Upper

98 100

100 66.5 52.2 78.2

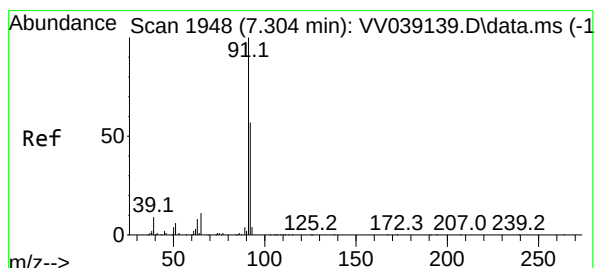
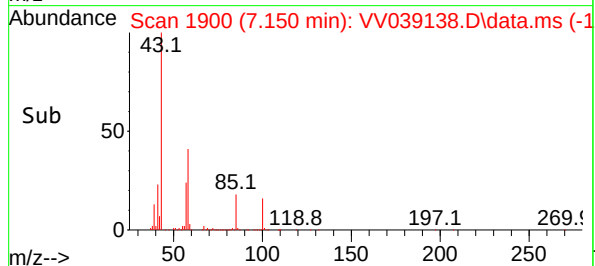
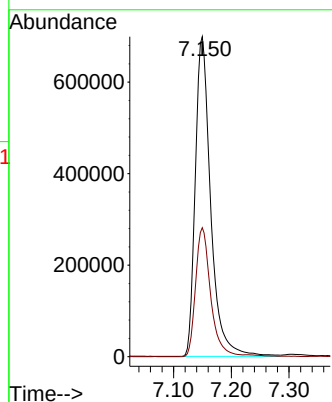
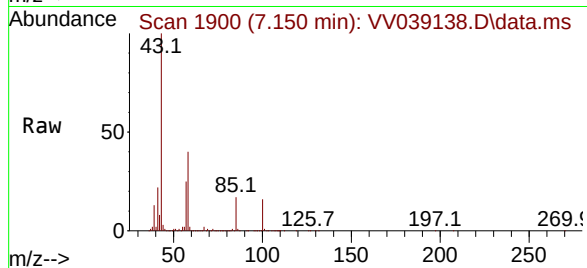




#51
4-Methyl-2-Pentanone
Concen: 111.268 ug/l
RT: 7.150 min Scan# 1900
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

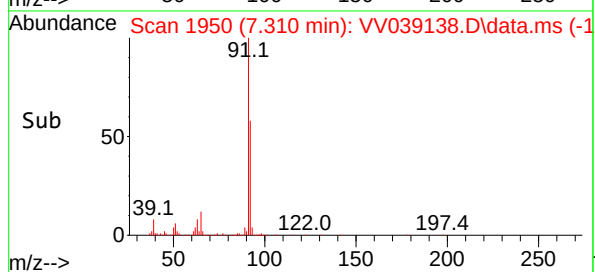
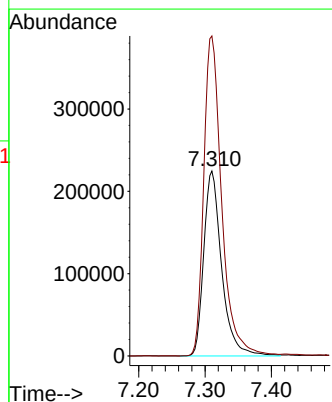
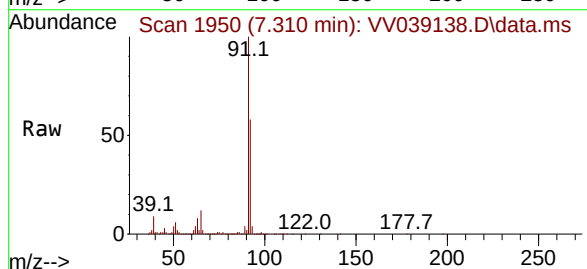
Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

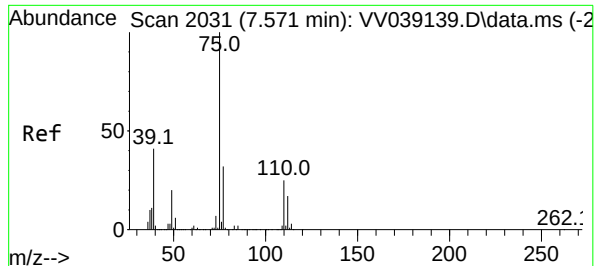
Tgt Ion: 43 Resp: 1296796
Ion Ratio Lower Upper
43 100
58 39.2 32.3 48.5



#52
Toluene
Concen: 20.892 ug/l
RT: 7.310 min Scan# 1950
Delta R.T. 0.006 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 92 Resp: 422367
Ion Ratio Lower Upper
92 100
91 173.4 139.2 208.8





#53

t-1,3-Dichloropropene

Concen: 20.516 ug/l

RT: 7.577 min Scan# 2031

Delta R.T. 0.006 min

Lab File: VV039138.D

Acq: 22 Sep 2025 12:48

Instrument :

MSVOA_V

ClientSampleId :

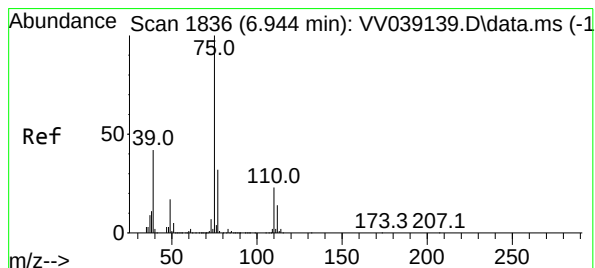
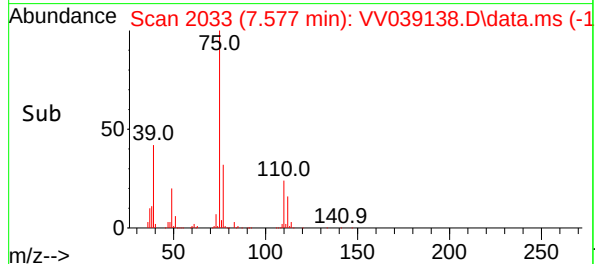
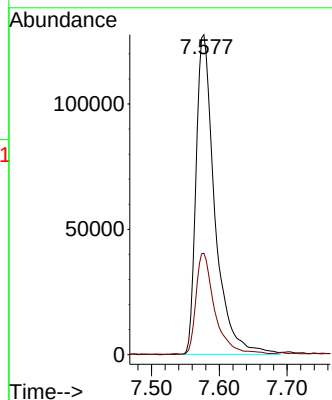
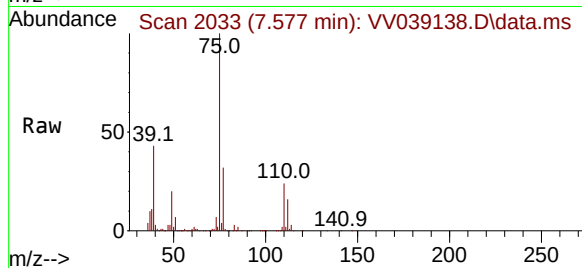
VSTDICC020

Tgt Ion: 75 Resp: 245181

Ion Ratio Lower Upper

75 100

77 31.4 25.9 38.9



#54

cis-1,3-Dichloropropene

Concen: 20.761 ug/l

RT: 6.950 min Scan# 1838

Delta R.T. 0.006 min

Lab File: VV039138.D

Acq: 22 Sep 2025 12:48

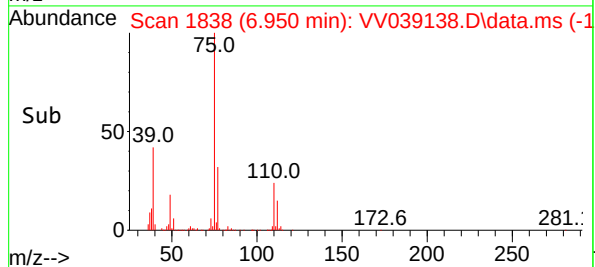
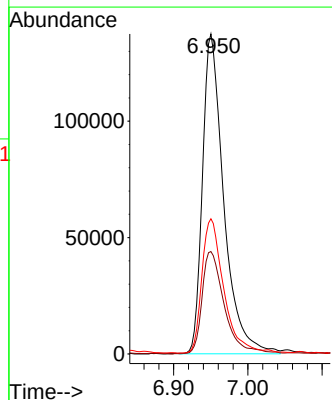
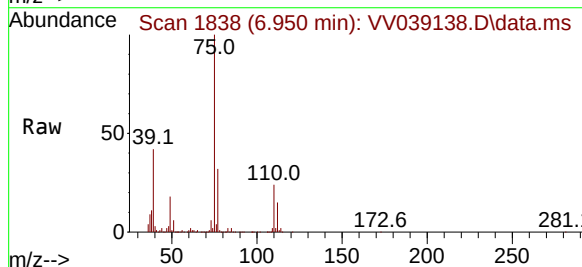
Tgt Ion: 75 Resp: 273906

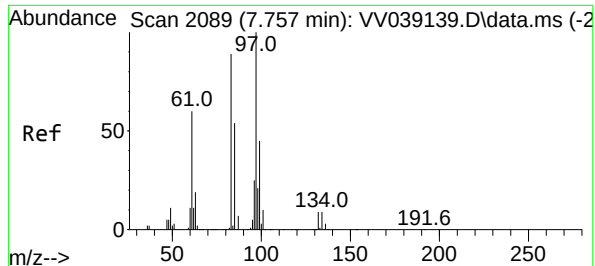
Ion Ratio Lower Upper

75 100

77 31.9 25.5 38.3

39 42.0 33.8 50.6





#55

1,1,2-Trichloroethane

Concen: 19.505 ug/l

RT: 7.760 min Scan# 2089

Delta R.T. 0.003 min

Lab File: VV039138.D

Acq: 22 Sep 2025 12:48

Instrument :

MSVOA_V

ClientSampleId :

VSTDICC020

Tgt Ion: 97 Resp: 176812

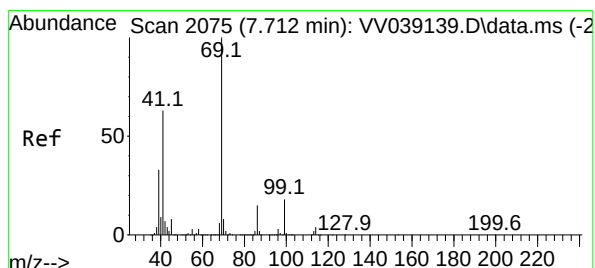
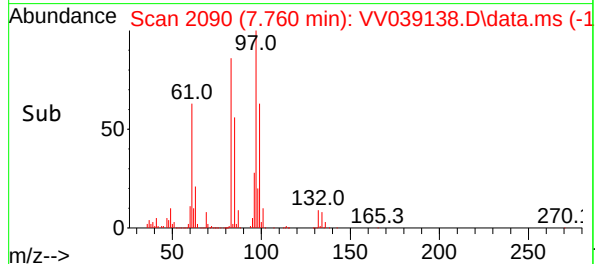
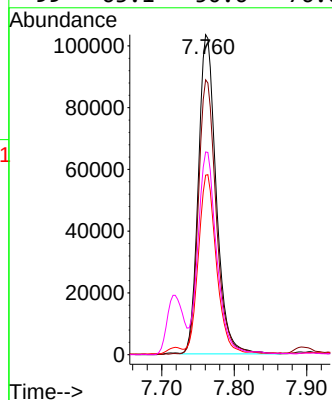
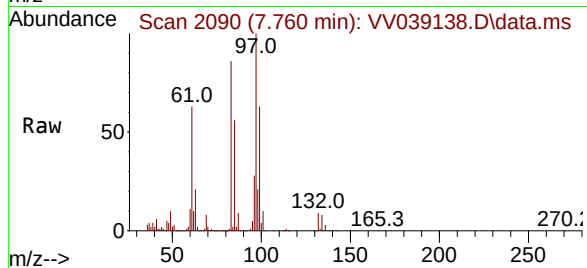
Ion Ratio Lower Upper

97 100

83 85.9 71.1 106.7

85 55.6 44.6 67.0

99 63.1 50.6 76.0



#56

Ethyl methacrylate

Concen: 19.723 ug/l

RT: 7.719 min Scan# 2077

Delta R.T. 0.007 min

Lab File: VV039138.D

Acq: 22 Sep 2025 12:48

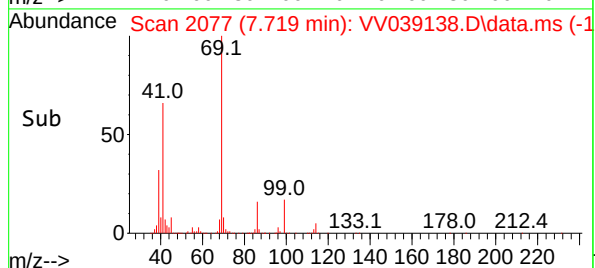
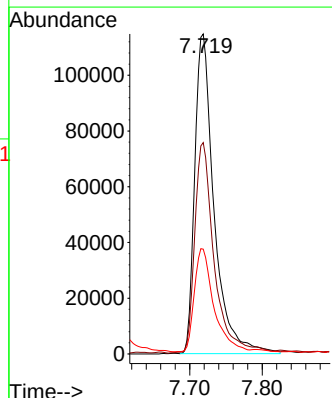
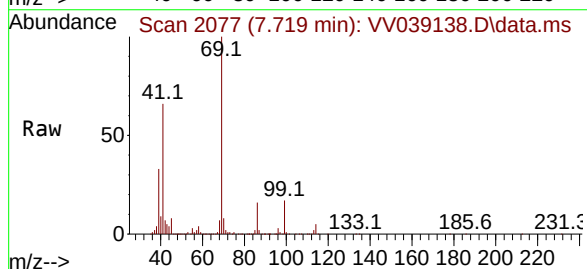
Tgt Ion: 69 Resp: 212320

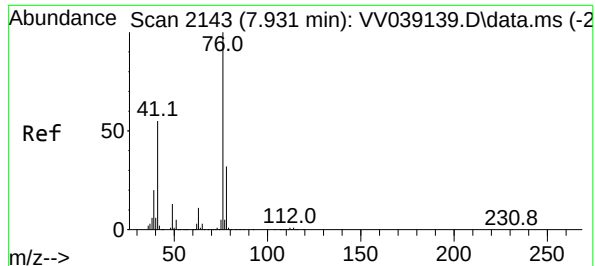
Ion Ratio Lower Upper

69 100

41 66.2 50.7 76.1

39 32.3 26.0 39.0





#57

1,3-Dichloropropane

Concen: 20.363 ug/l

RT: 7.934 min Scan# 2143

Delta R.T. 0.003 min

Lab File: VV039138.D

Acq: 22 Sep 2025 12:48

Instrument :

MSVOA_V

ClientSampleId :

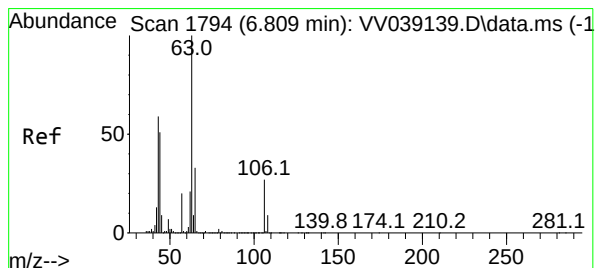
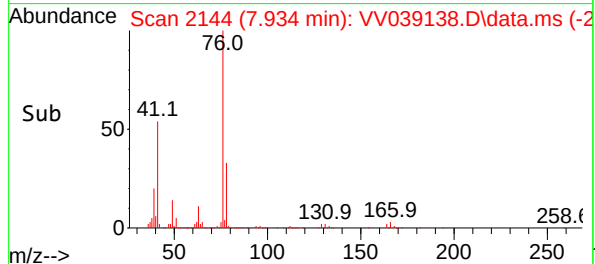
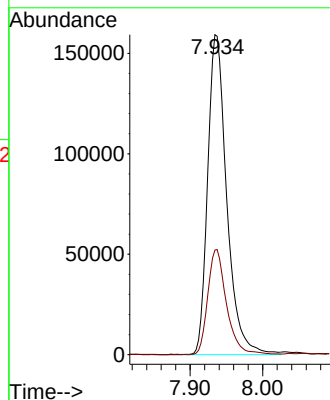
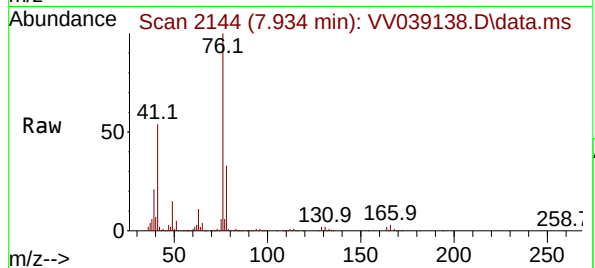
VSTDICC020

Tgt Ion: 76 Resp: 291304

Ion Ratio Lower Upper

76 100

78 32.4 26.1 39.1



#58

2-Chloroethyl Vinyl ether

Concen: 94.274 ug/l

RT: 6.815 min Scan# 1796

Delta R.T. 0.006 min

Lab File: VV039138.D

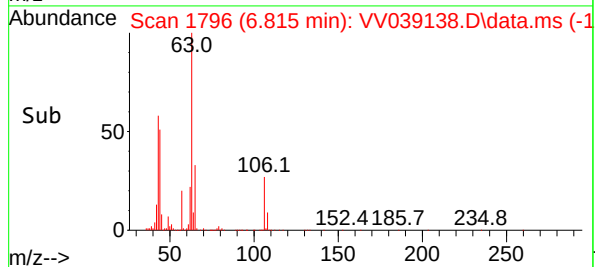
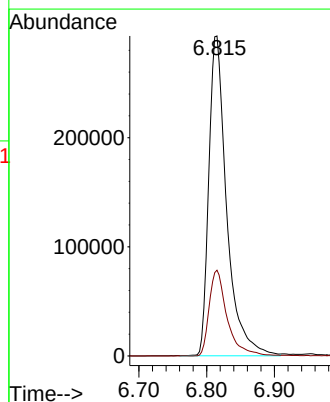
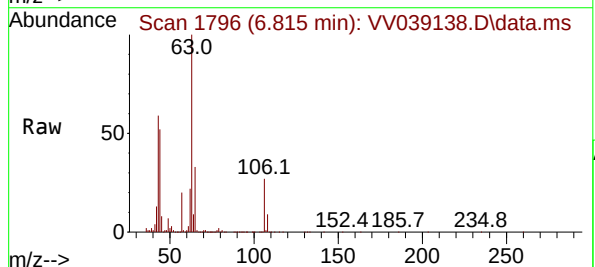
Acq: 22 Sep 2025 12:48

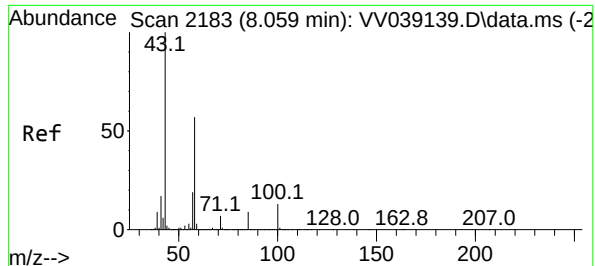
Tgt Ion: 63 Resp: 536254

Ion Ratio Lower Upper

63 100

106 27.3 22.1 33.1





#59

2-Hexanone

Concen: 101.225 ug/l

RT: 8.066 min Scan# 2185

Delta R.T. 0.007 min

Lab File: VV039138.D

Acq: 22 Sep 2025 12:48

Instrument :

MSVOA_V

ClientSampleId :

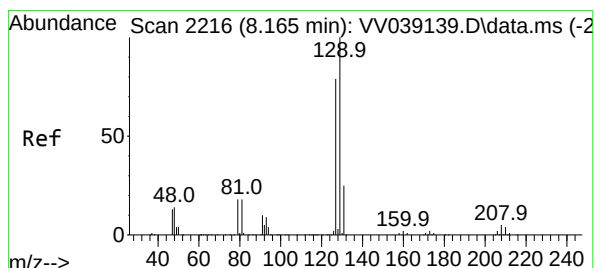
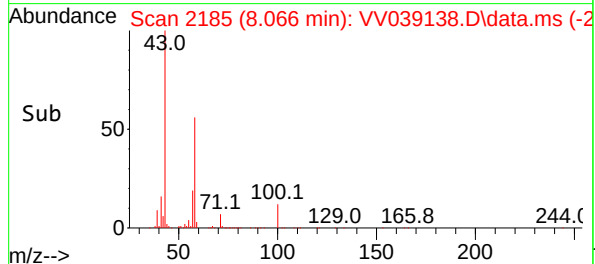
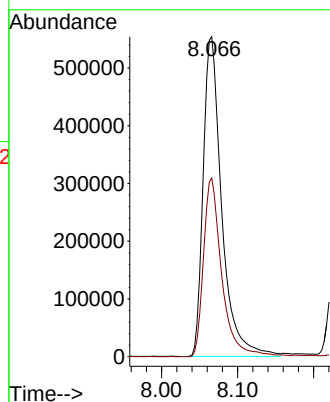
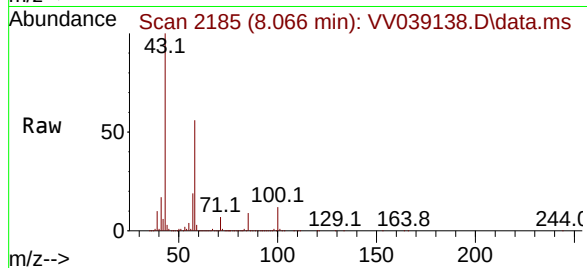
VSTDIC020

Tgt Ion: 43 Resp: 940265

Ion Ratio Lower Upper

43 100

58 55.0 28.3 85.0



#60

Dibromochloromethane

Concen: 19.440 ug/l

RT: 8.169 min Scan# 2217

Delta R.T. 0.003 min

Lab File: VV039138.D

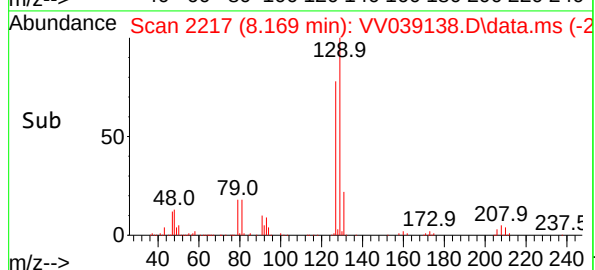
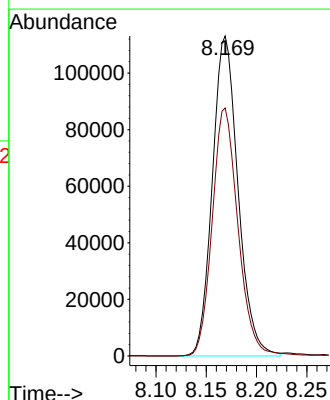
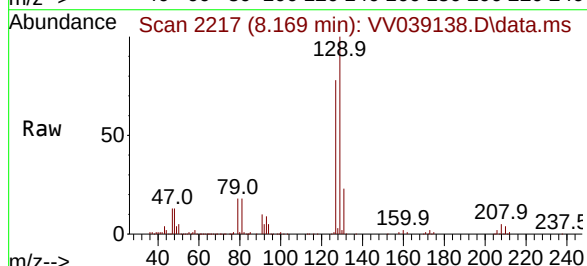
Acq: 22 Sep 2025 12:48

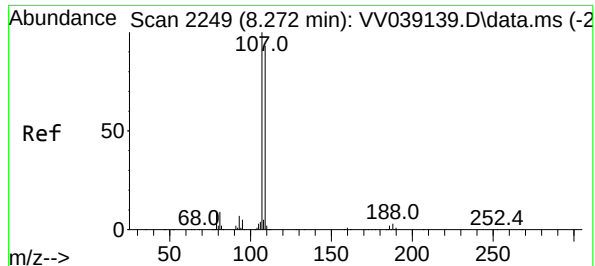
Tgt Ion: 129 Resp: 200793

Ion Ratio Lower Upper

129 100

127 77.9 39.3 117.9





#61

1,2-Dibromoethane

Concen: 20.447 ug/l

RT: 8.275 min Scan# 21

Delta R.T. 0.003 min

Lab File: VV039138.D

Acq: 22 Sep 2025 12:48

Instrument :

MSVOA_V

ClientSampleId :

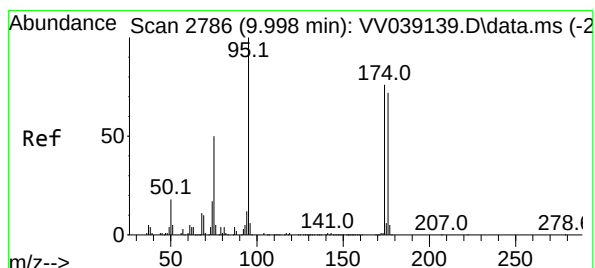
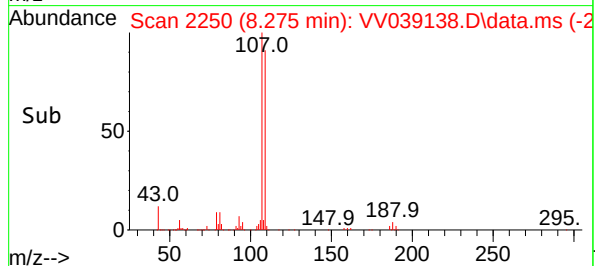
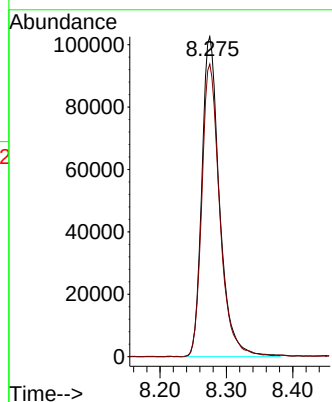
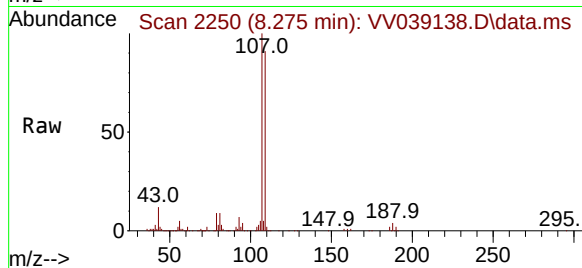
VSTDIC020

Tgt Ion:107 Resp: 189555

Ion Ratio Lower Upper

107 100

109 92.8 74.6 112.0



#62

4-Bromofluorobenzene

Concen: 19.105 ug/l

RT: 10.002 min Scan# 2787

Delta R.T. 0.003 min

Lab File: VV039138.D

Acq: 22 Sep 2025 12:48

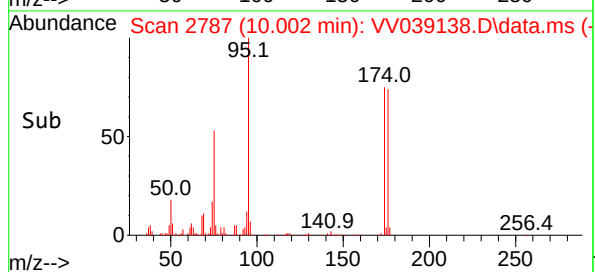
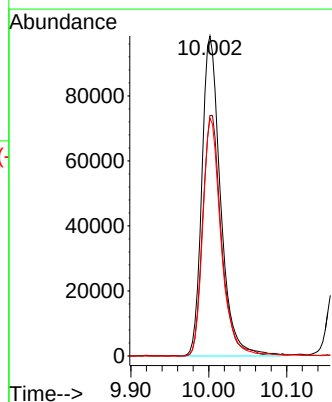
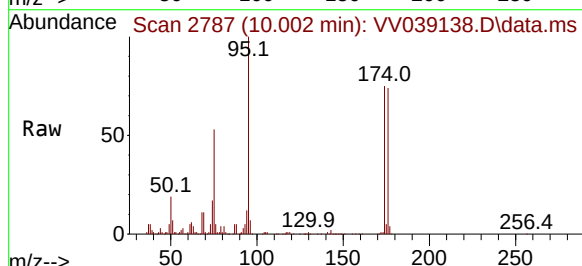
Tgt Ion: 95 Resp: 163597

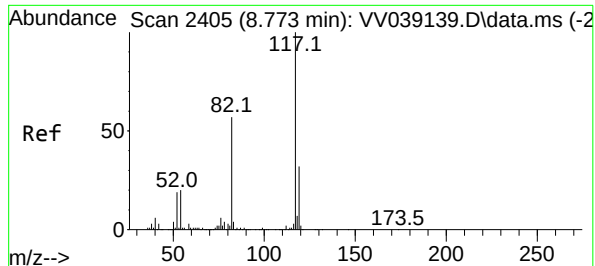
Ion Ratio Lower Upper

95 100

174 75.6 0.0 150.4

176 72.3 0.0 144.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 8.773 min Scan# 2405

Delta R.T. 0.000 min

Lab File: VV039138.D

Acq: 22 Sep 2025 12:48

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC020

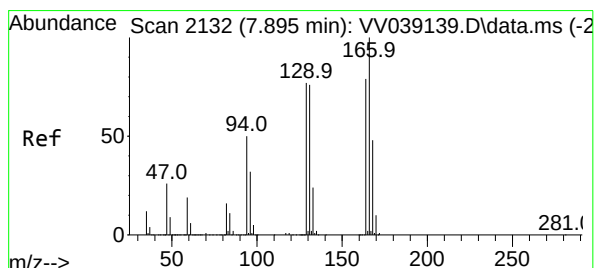
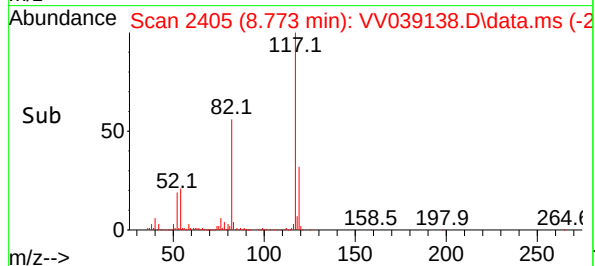
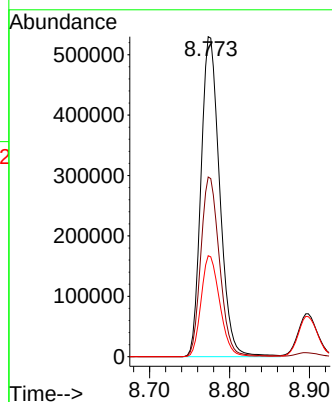
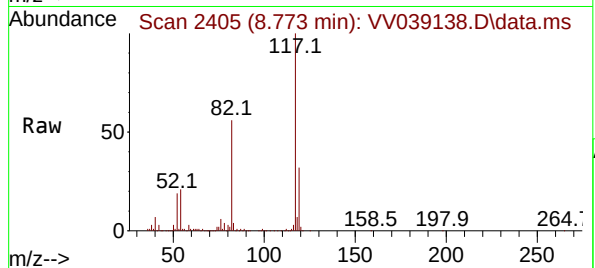
Tgt Ion:117 Resp: 860340

Ion Ratio Lower Upper

117 100

82 56.1 45.4 68.2

119 31.5 25.6 38.4



#64

Tetrachloroethene

Concen: 19.688 ug/l

RT: 7.899 min Scan# 2133

Delta R.T. 0.003 min

Lab File: VV039138.D

Acq: 22 Sep 2025 12:48

Tgt Ion:164 Resp: 141876

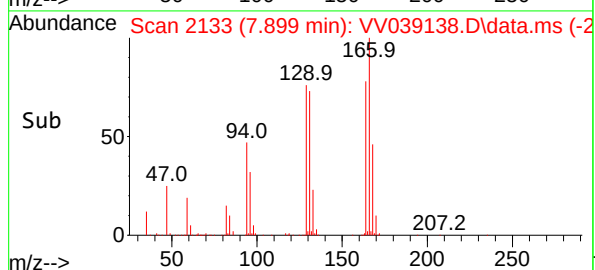
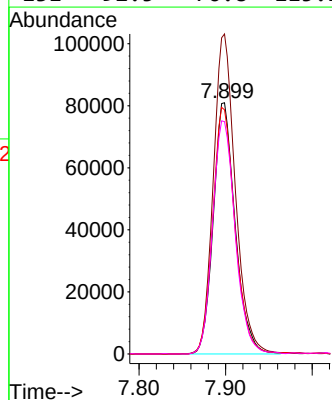
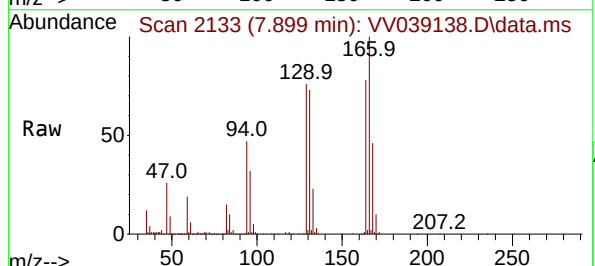
Ion Ratio Lower Upper

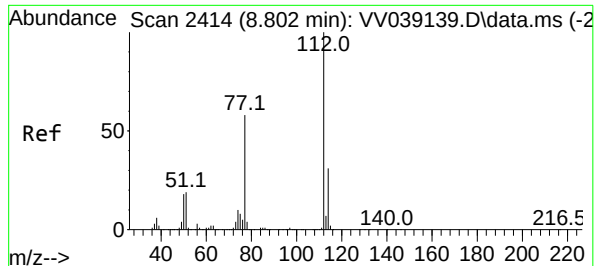
164 100

166 127.4 101.6 152.4

129 97.2 78.5 117.7

131 92.5 76.8 115.2





#65

Chlorobenzene

Concen: 19.648 ug/l

RT: 8.805 min Scan# 2414

Delta R.T. 0.003 min

Lab File: VV039138.D

Acq: 22 Sep 2025 12:48

Instrument :

MSVOA_V

ClientSampleId :

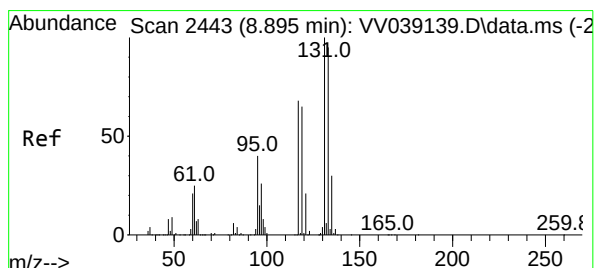
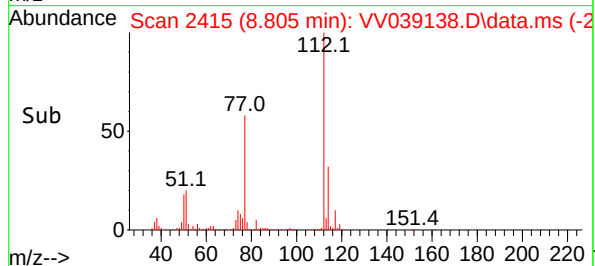
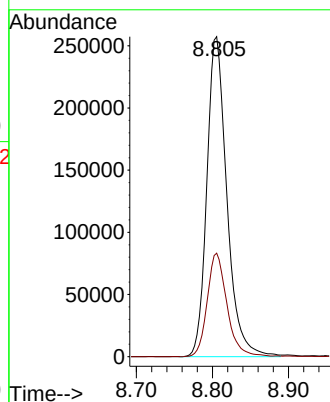
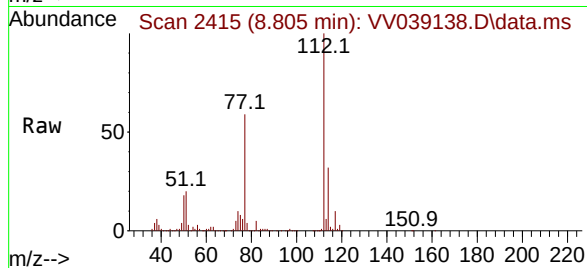
VSTDIC020

Tgt Ion:112 Resp: 470841

Ion Ratio Lower Upper

112 100

114 32.4 24.6 37.0



#66

1,1,1,2-Tetrachloroethane

Concen: 19.395 ug/l

RT: 8.899 min Scan# 2444

Delta R.T. 0.003 min

Lab File: VV039138.D

Acq: 22 Sep 2025 12:48

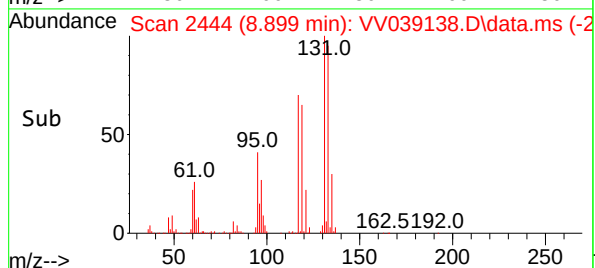
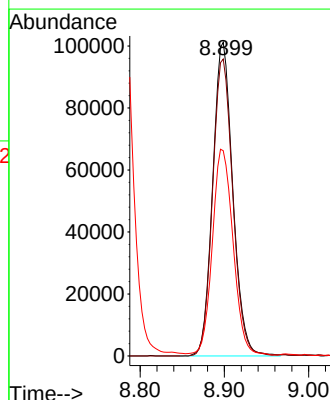
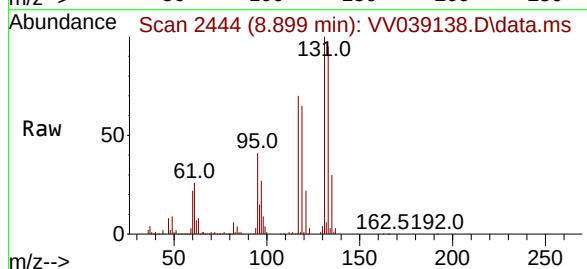
Tgt Ion:131 Resp: 167936

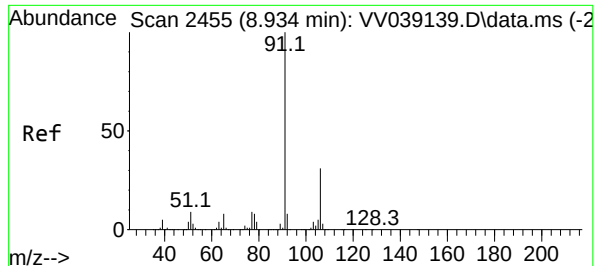
Ion Ratio Lower Upper

131 100

133 95.3 47.3 141.8

119 67.8 33.3 99.8





#67

Ethyl Benzene

Concen: 20.328 ug/l

RT: 8.937 min Scan# 2456

Delta R.T. 0.003 min

Lab File: VV039138.D

Acq: 22 Sep 2025 12:48

Instrument :

MSVOA_V

ClientSampleId :

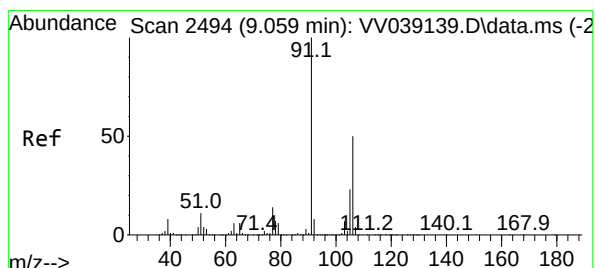
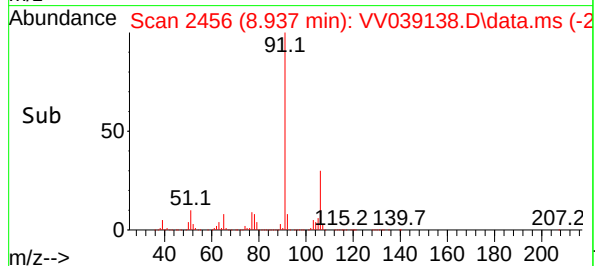
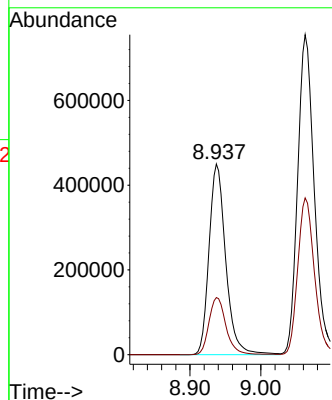
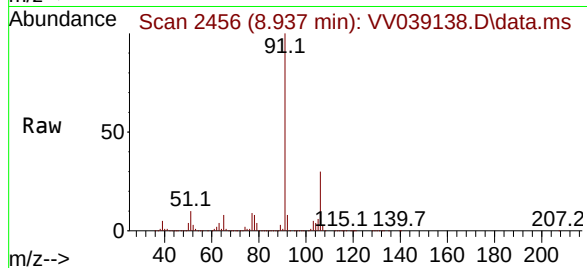
VSTDICC020

Tgt Ion: 91 Resp: 737391

Ion Ratio Lower Upper

91 100

106 30.0 24.6 37.0



#68

m/p-Xylenes

Concen: 43.381 ug/l

RT: 9.063 min Scan# 2495

Delta R.T. 0.004 min

Lab File: VV039138.D

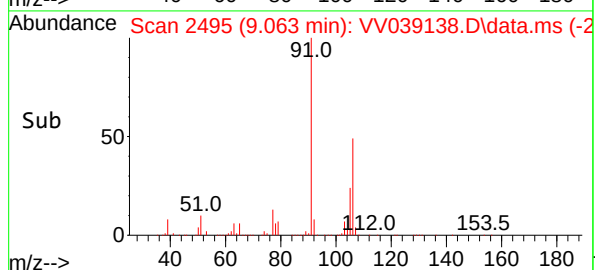
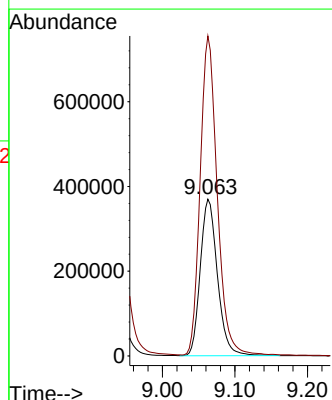
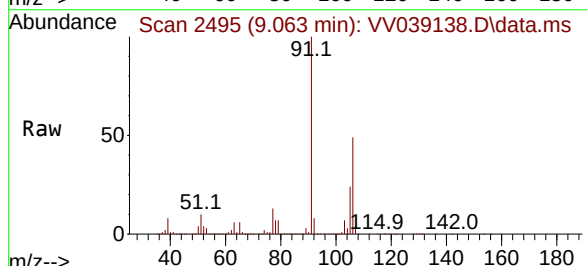
Acq: 22 Sep 2025 12:48

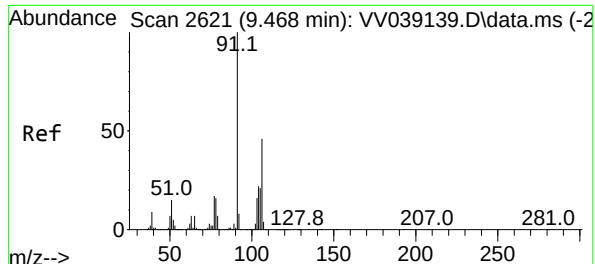
Tgt Ion: 106 Resp: 607362

Ion Ratio Lower Upper

106 100

91 201.7 162.5 243.7





#69

o-Xylene

Concen: 20.587 ug/l

RT: 9.468 min Scan# 2

Delta R.T. 0.000 min

Lab File: VV039138.D

Acq: 22 Sep 2025 12:48

Instrument :

MSVOA_V

ClientSampleId :

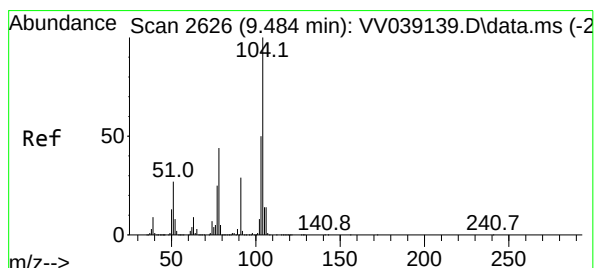
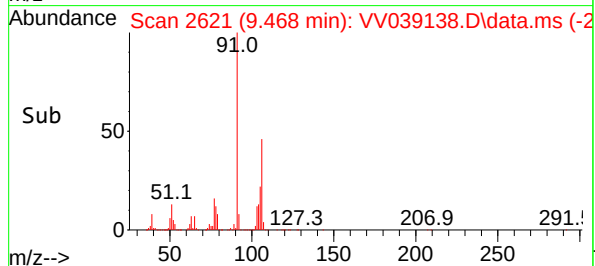
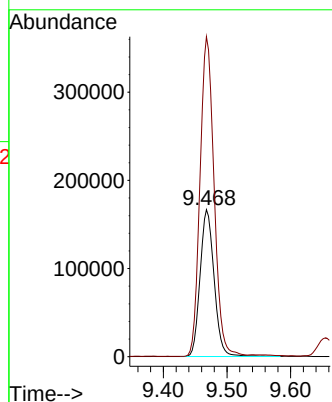
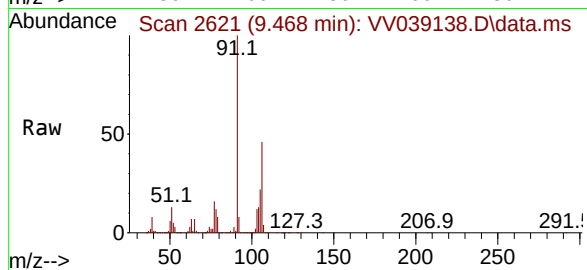
VSTDIC020

Tgt Ion:106 Resp: 255212

Ion Ratio Lower Upper

106 100

91 218.4 109.1 327.3



#70

Styrene

Concen: 19.022 ug/l

RT: 9.487 min Scan# 2627

Delta R.T. 0.003 min

Lab File: VV039138.D

Acq: 22 Sep 2025 12:48

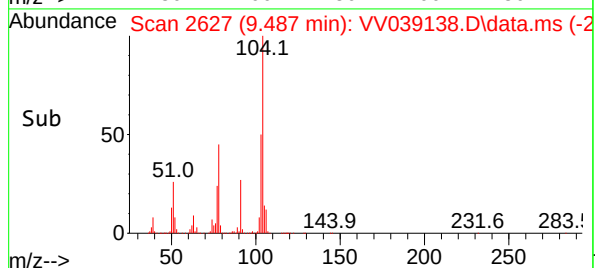
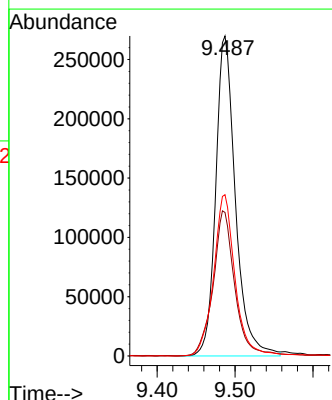
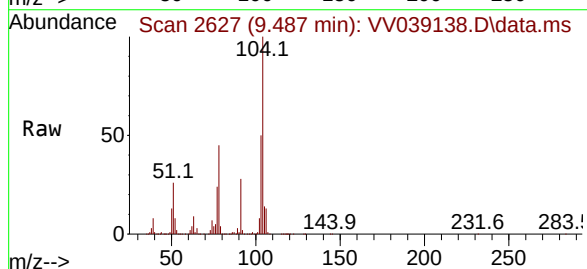
Tgt Ion:104 Resp: 475382

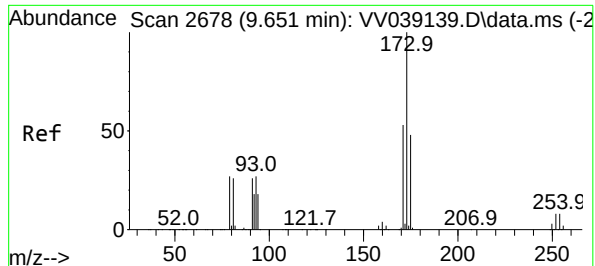
Ion Ratio Lower Upper

104 100

78 50.0 39.8 59.6

103 55.1 43.4 65.2

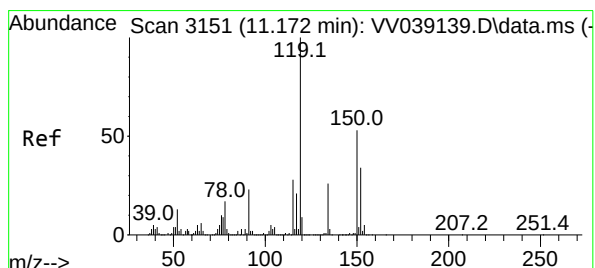
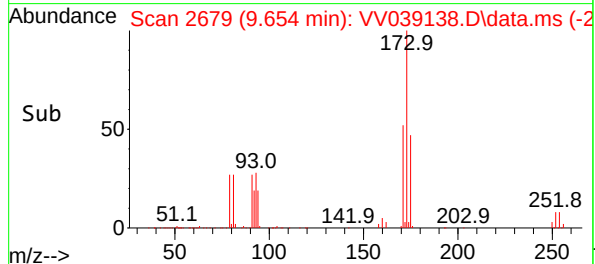
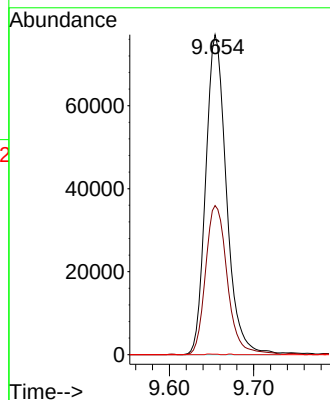
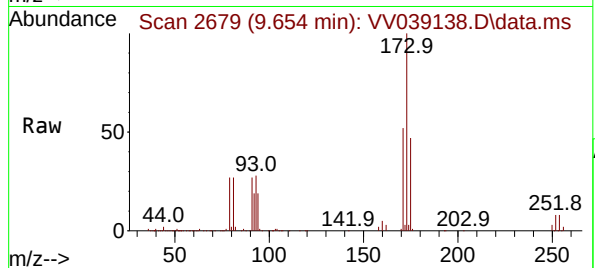




#71
Bromoform
Concen: 19.552 ug/l
RT: 9.654 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

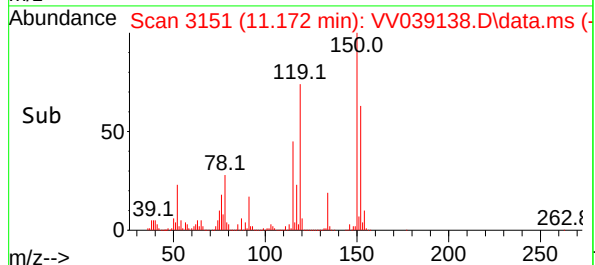
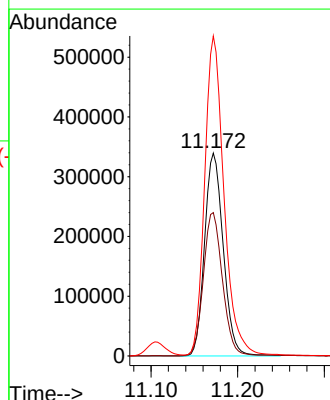
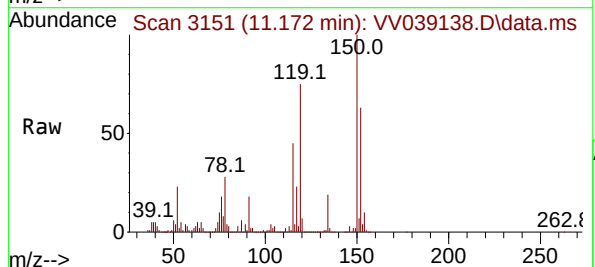
Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

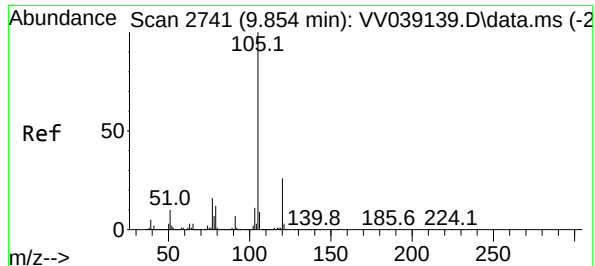
Tgt Ion:173 Resp: 132242
Ion Ratio Lower Upper
173 100
175 48.9 23.9 71.7
254 0.1 0.1 0.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3151
Delta R.T. -0.000 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion:152 Resp: 509460
Ion Ratio Lower Upper
152 100
115 72.2 44.8 134.4
150 163.4 0.0 353.8

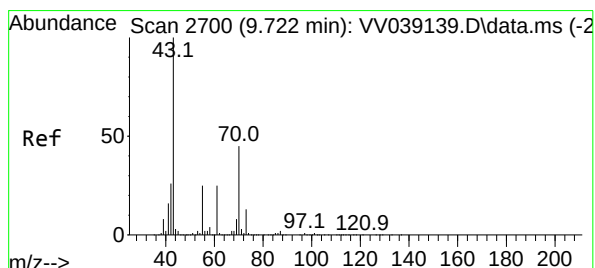
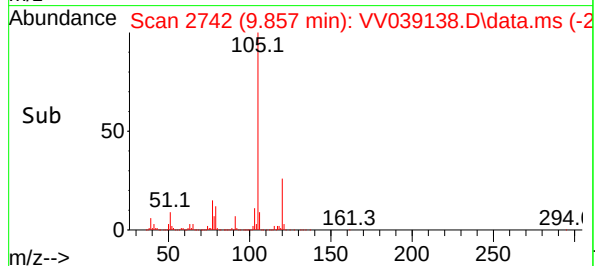
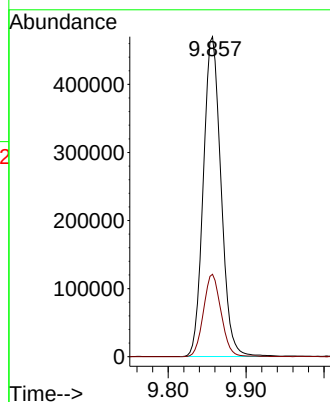
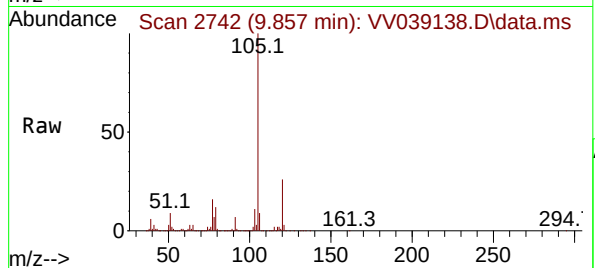




#73
Isopropylbenzene
Concen: 20.062 ug/l
RT: 9.857 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

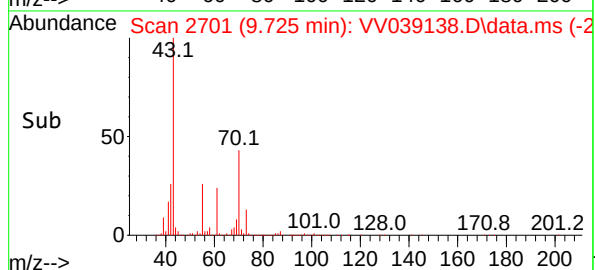
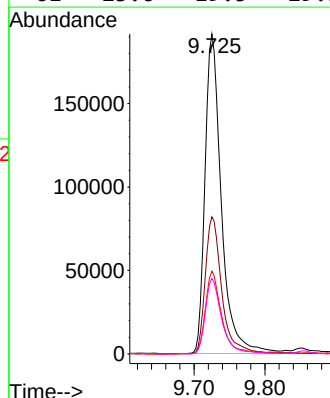
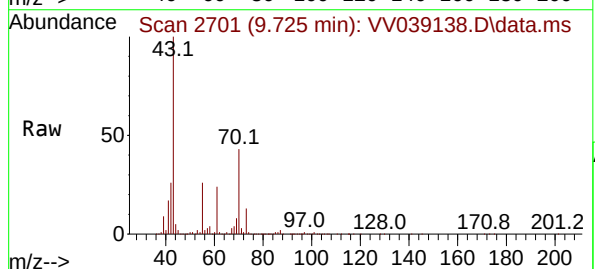
Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

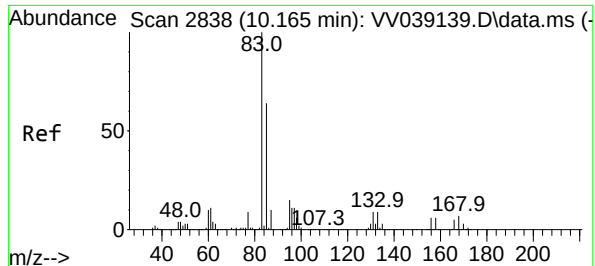
Tgt Ion:105 Resp: 741305
Ion Ratio Lower Upper
105 100
120 25.8 13.1 39.1



#74
N-ethyl acetate
Concen: 20.826 ug/l
RT: 9.725 min Scan# 2701
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 43 Resp: 306963
Ion Ratio Lower Upper
43 100
70 43.4 35.4 53.0
55 25.0 20.6 30.8
61 23.6 19.5 29.3

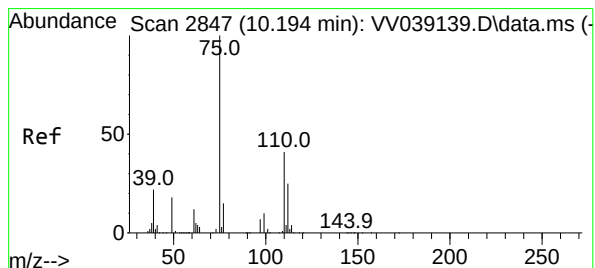
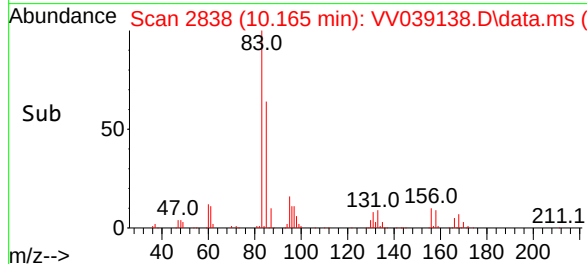
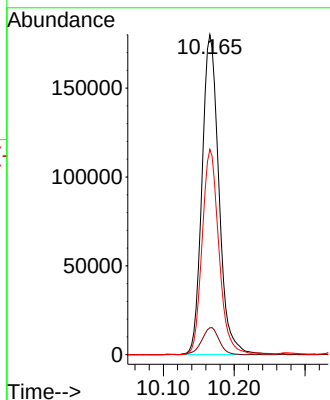
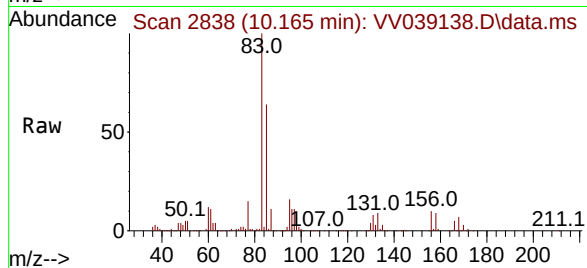




#75
1,1,2,2-Tetrachloroethane
Concen: 18.390 ug/l
RT: 10.165 min Scan# 2838
Delta R.T. 0.000 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

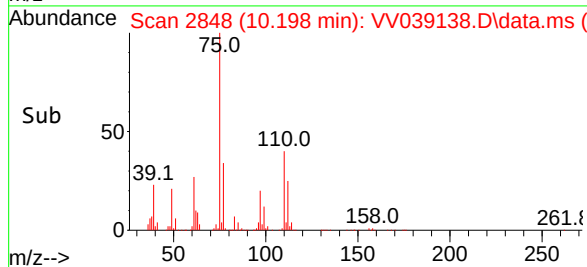
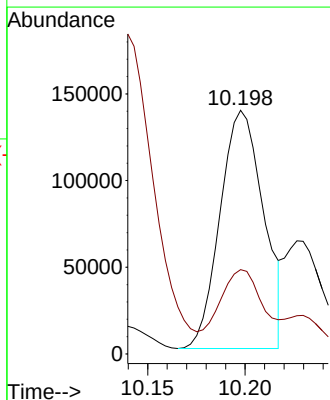
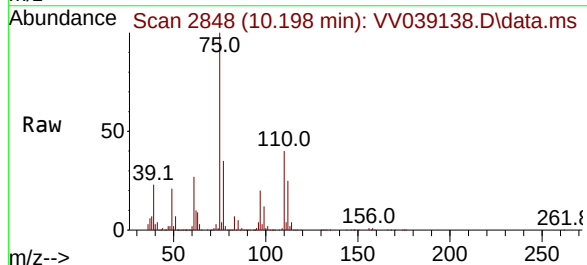
Instrument :
MSVOA_V
ClientSampleId :
VSTDIC020

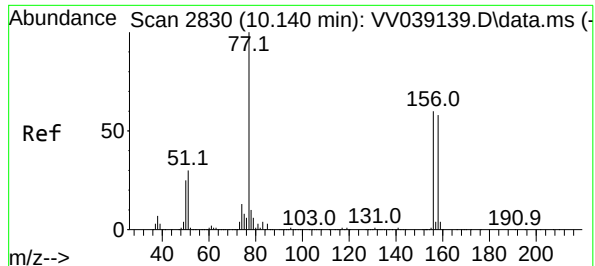
Tgt Ion: 83 Resp: 297741
Ion Ratio Lower Upper
83 100
131 8.8 4.5 13.7
85 63.7 31.9 95.9



#76
1,2,3-Trichloropropane
Concen: 18.409 ug/l
RT: 10.198 min Scan# 2848
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 75 Resp: 213532
Ion Ratio Lower Upper
75 100
77 22.1 11.3 33.8





#77

Bromobenzene

Concen: 19.525 ug/l

RT: 10.140 min Scan# 2830

Delta R.T. 0.000 min

Lab File: VV039138.D

Acq: 22 Sep 2025 12:48

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC020

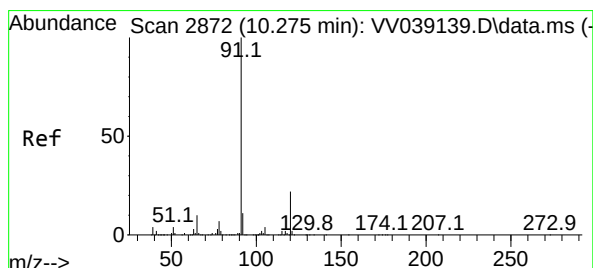
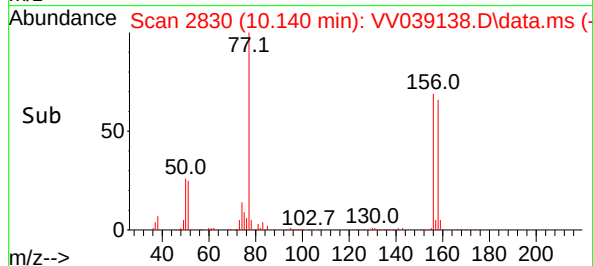
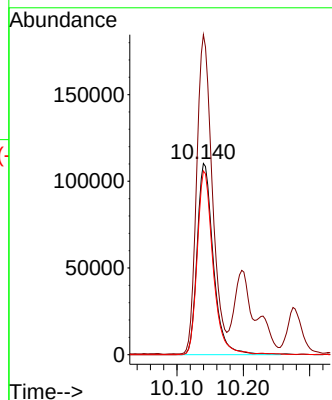
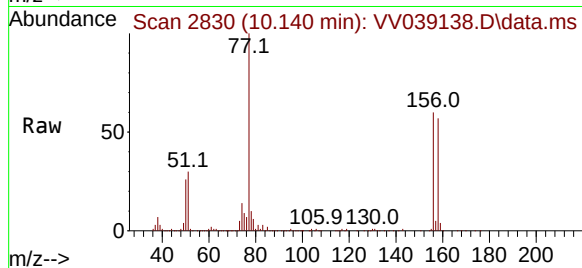
Tgt Ion:156 Resp: 187188

Ion Ratio Lower Upper

156 100

77 160.4 83.4 250.1

158 93.6 48.8 146.4



#78

n-propylbenzene

Concen: 20.118 ug/l

RT: 10.278 min Scan# 2873

Delta R.T. 0.003 min

Lab File: VV039138.D

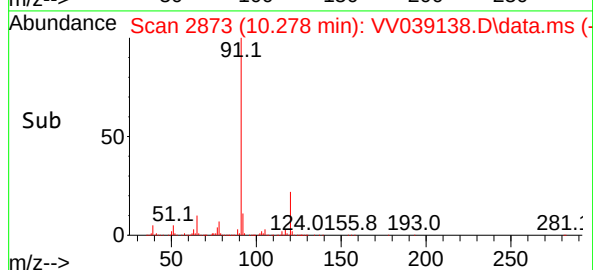
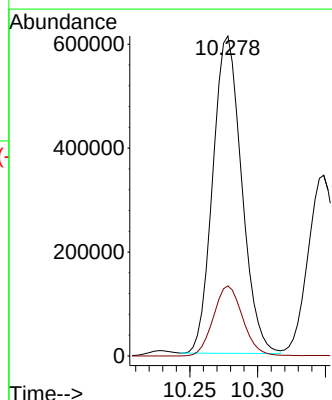
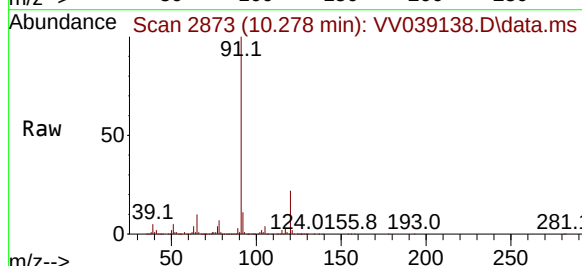
Acq: 22 Sep 2025 12:48

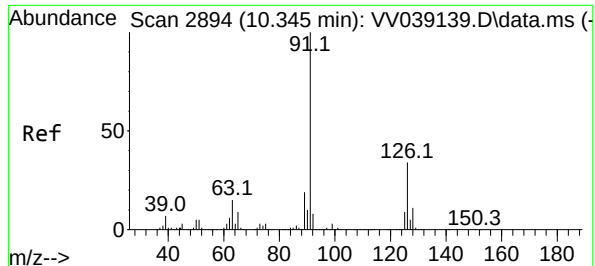
Tgt Ion: 91 Resp: 905281

Ion Ratio Lower Upper

91 100

120 22.5 11.1 33.3





#79

2-Chlorotoluene

Concen: 20.346 ug/l

RT: 10.349 min Scan# 2894

Delta R.T. 0.003 min

Lab File: VV039138.D

Acq: 22 Sep 2025 12:48

Instrument :

MSVOA_V

ClientSampleId :

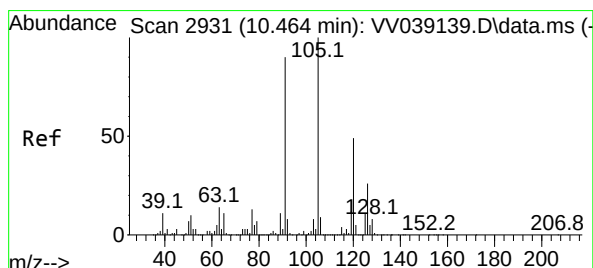
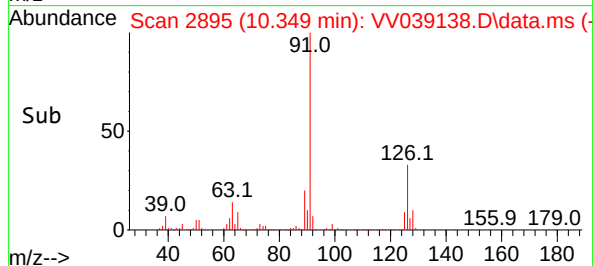
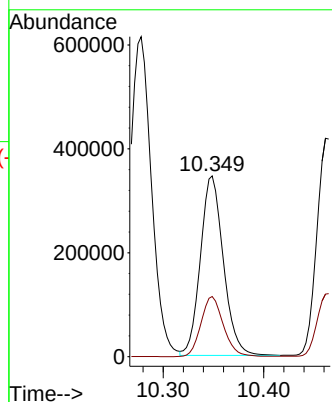
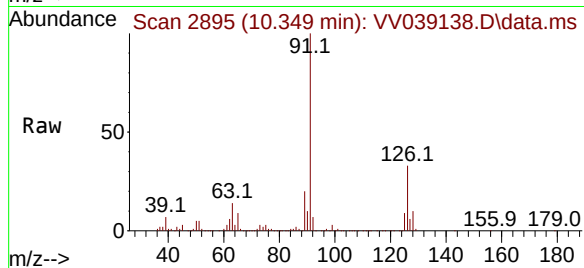
VSTDIC020

Tgt Ion: 91 Resp: 547836

Ion Ratio Lower Upper

91 100

126 32.8 16.7 50.0



#80

1,3,5-Trimethylbenzene

Concen: 20.843 ug/l

RT: 10.464 min Scan# 2931

Delta R.T. 0.000 min

Lab File: VV039138.D

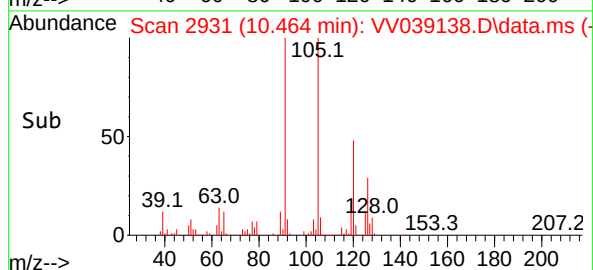
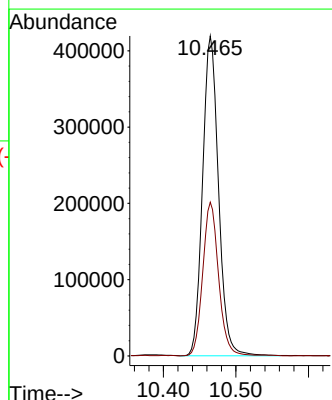
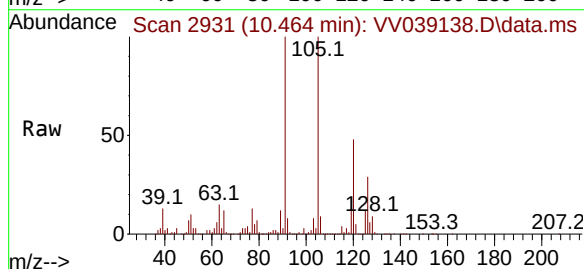
Acq: 22 Sep 2025 12:48

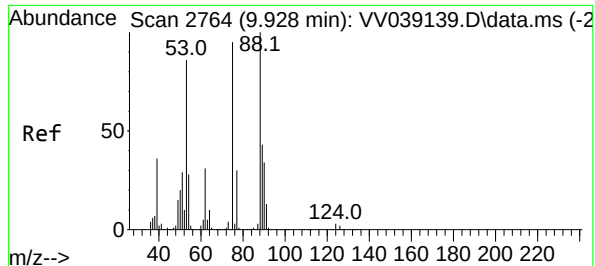
Tgt Ion: 105 Resp: 640175

Ion Ratio Lower Upper

105 100

120 47.6 24.3 72.8

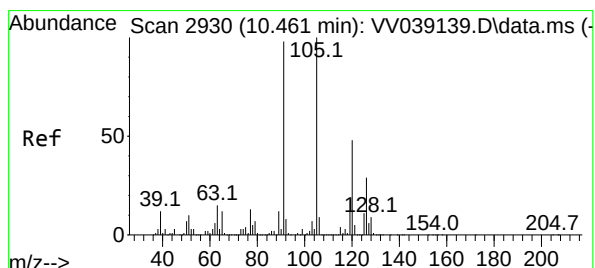
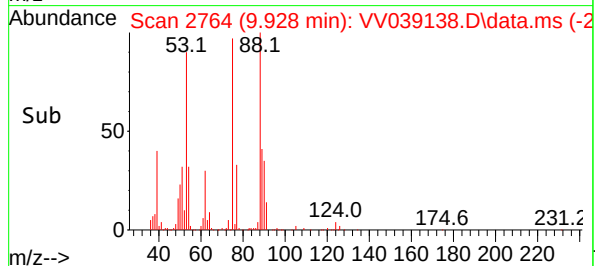
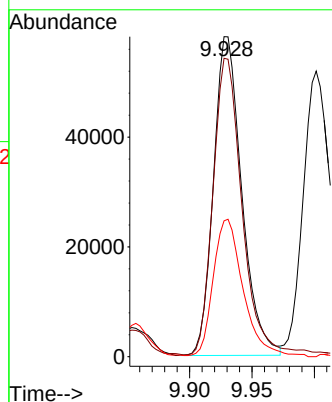
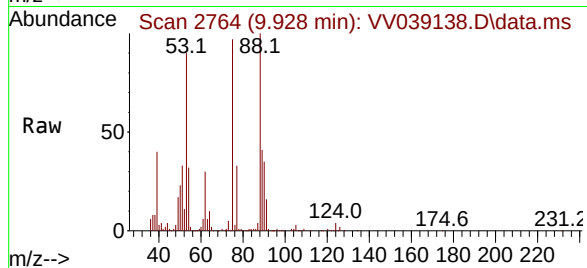




#81
trans-1,4-Dichloro-2-butene
Concen: 19.009 ug/l
RT: 9.928 min Scan# 2764
Delta R.T. 0.000 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

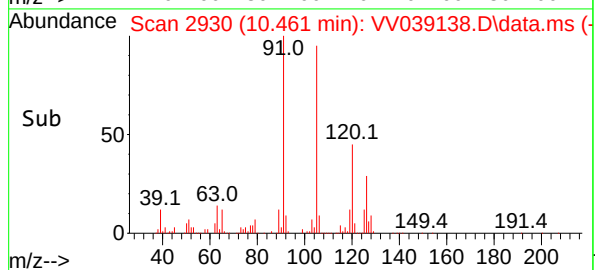
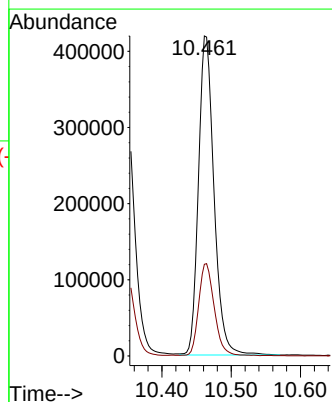
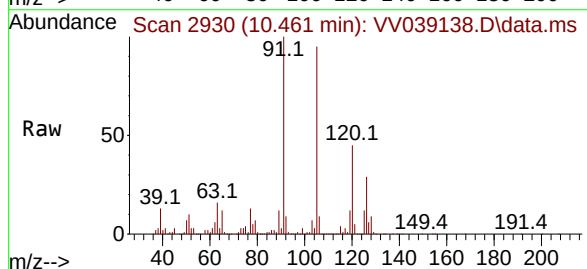
Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

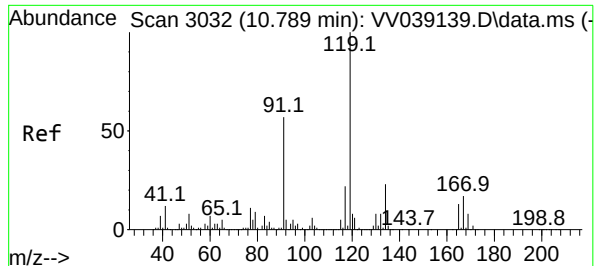
Tgt Ion: 75 Resp: 91848
Ion Ratio Lower Upper
75 100
53 95.8 72.5 108.7
89 45.7 37.2 55.8



#82
4-Chlorotoluene
Concen: 20.993 ug/l
RT: 10.461 min Scan# 2930
Delta R.T. 0.000 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 91 Resp: 655427
Ion Ratio Lower Upper
91 100
126 28.7 14.5 43.6





#83

tert-Butylbenzene

Concen: 19.172 ug/l

RT: 10.789 min Scan# 3032

Delta R.T. 0.000 min

Lab File: VV039138.D

Acq: 22 Sep 2025 12:48

Instrument :

MSVOA_V

ClientSampleId :

VSTDICC020

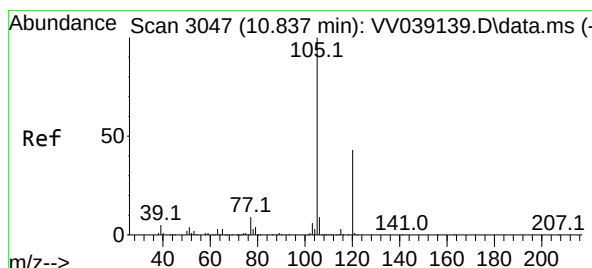
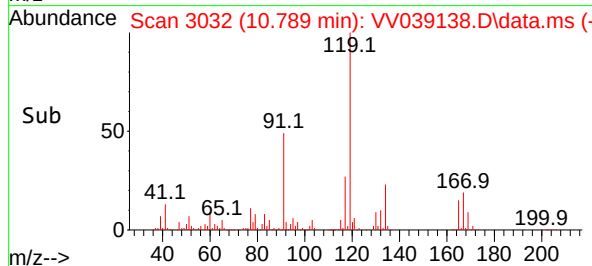
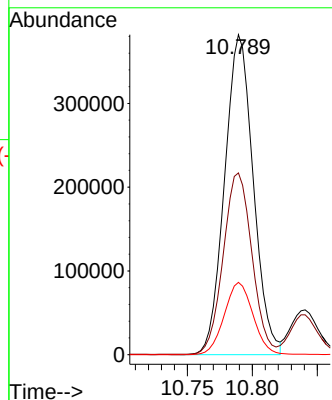
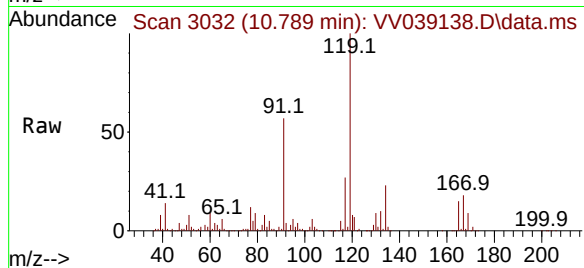
Tgt Ion:119 Resp: 587151

Ion Ratio Lower Upper

119 100

91 56.6 28.5 85.6

134 22.8 11.5 34.4



#84

1,2,4-Trimethylbenzene

Concen: 21.185 ug/l

RT: 10.841 min Scan# 3048

Delta R.T. 0.003 min

Lab File: VV039138.D

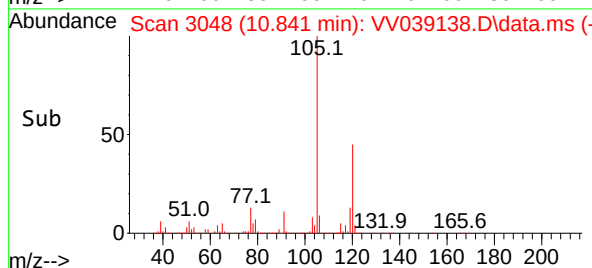
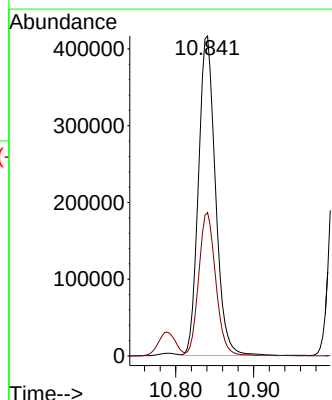
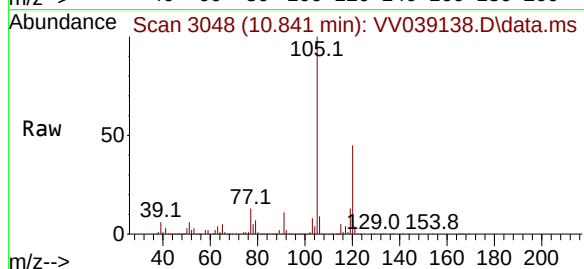
Acq: 22 Sep 2025 12:48

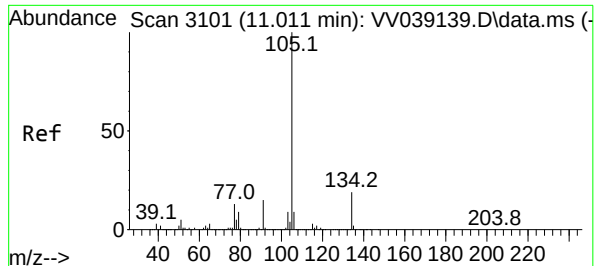
Tgt Ion:105 Resp: 631679

Ion Ratio Lower Upper

105 100

120 44.6 22.4 67.2





#85

sec-Butylbenzene

Concen: 19.912 ug/l

RT: 11.011 min Scan# 3101

Delta R.T. 0.000 min

Lab File: VV039138.D

Acq: 22 Sep 2025 12:48

Instrument :

MSVOA_V

ClientSampleId :

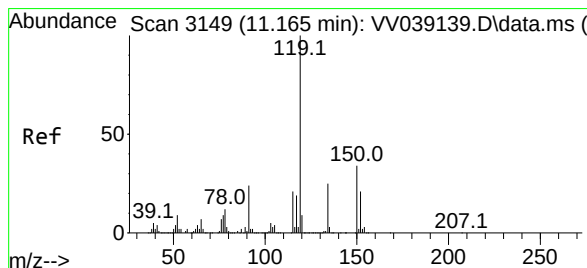
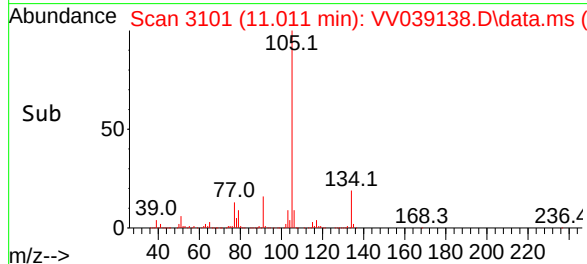
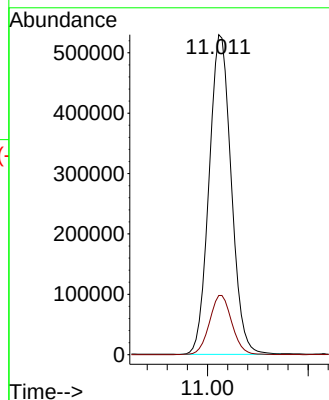
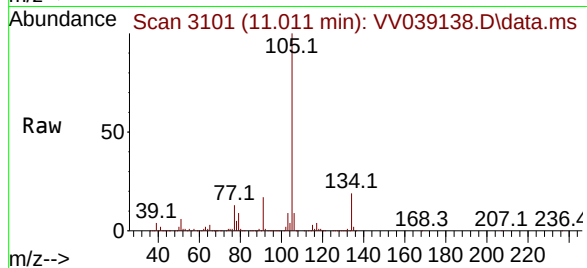
VSTDIC020

Tgt Ion:105 Resp: 808869

Ion Ratio Lower Upper

105 100

134 18.8 9.6 28.8



#86

p-Isopropyltoluene

Concen: 20.196 ug/l

RT: 11.165 min Scan# 3149

Delta R.T. 0.000 min

Lab File: VV039138.D

Acq: 22 Sep 2025 12:48

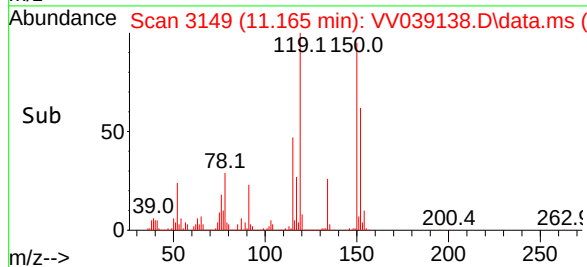
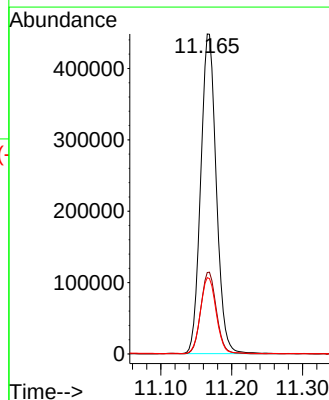
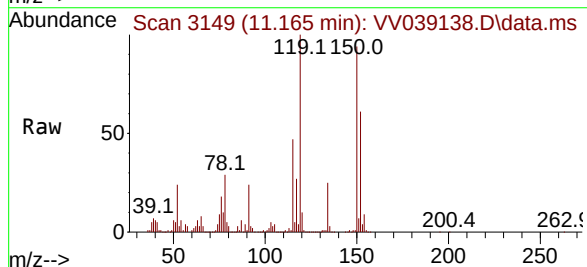
Tgt Ion:119 Resp: 682814

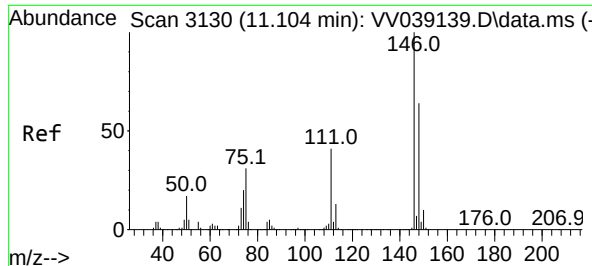
Ion Ratio Lower Upper

119 100

134 25.5 12.7 38.0

91 24.1 12.0 36.1





#87

1,3-Dichlorobenzene

Concen: 19.287 ug/l

RT: 11.104 min Scan# 3130

Delta R.T. 0.000 min

Lab File: VV039138.D

Acq: 22 Sep 2025 12:48

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC020

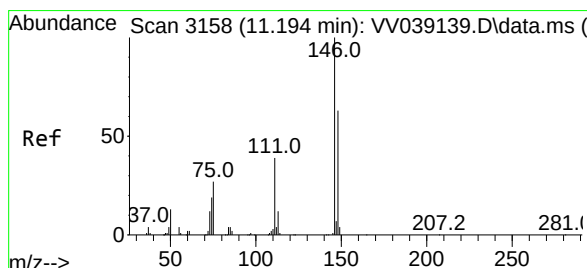
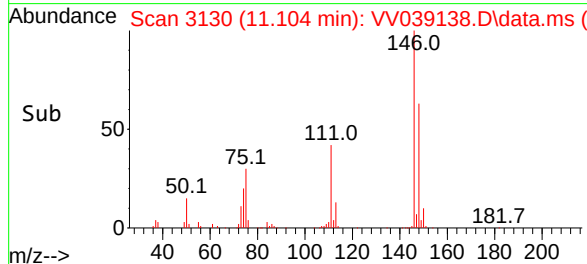
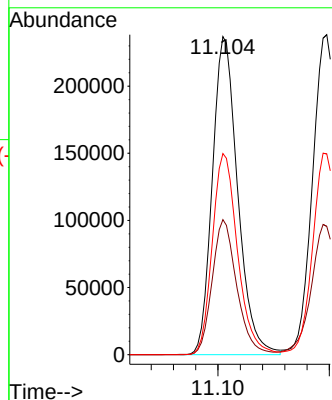
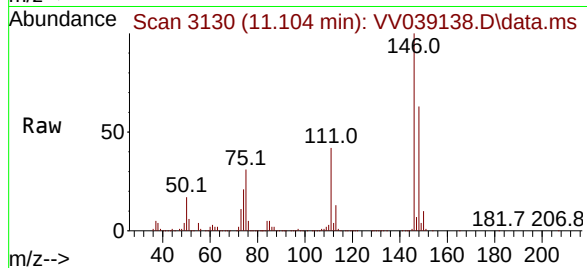
Tgt Ion:146 Resp: 374208

Ion Ratio Lower Upper

146 100

111 41.3 20.9 62.8

148 63.1 31.8 95.3



#88

1,4-Dichlorobenzene

Concen: 18.539 ug/l

RT: 11.198 min Scan# 3159

Delta R.T. 0.003 min

Lab File: VV039138.D

Acq: 22 Sep 2025 12:48

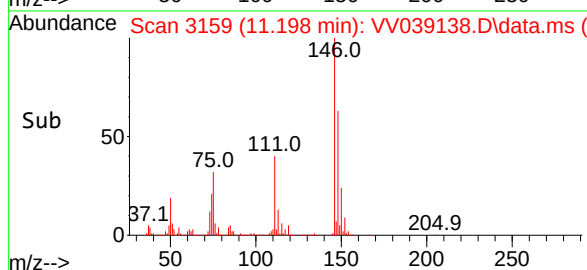
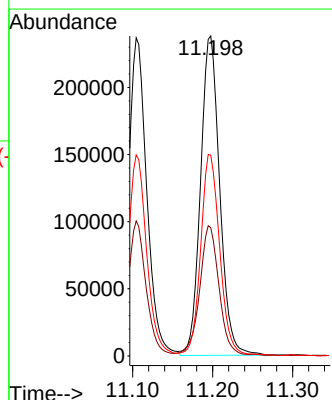
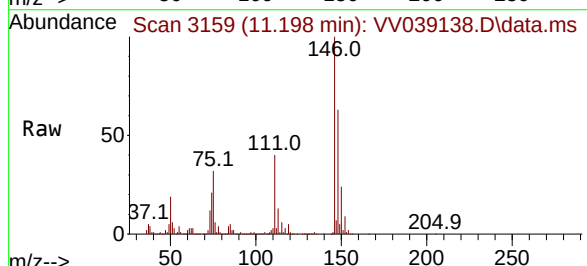
Tgt Ion:146 Resp: 397526

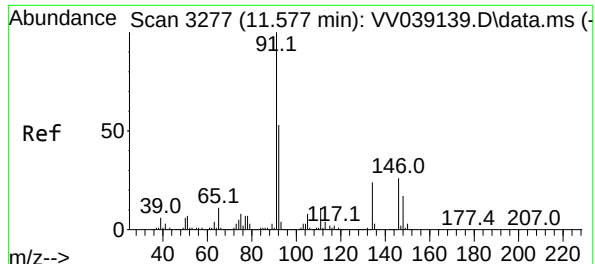
Ion Ratio Lower Upper

146 100

111 40.4 20.3 60.8

148 62.8 31.4 94.2





#89

n-Butylbenzene

Concen: 19.822 ug/l

RT: 11.580 min Scan# 3278

Delta R.T. 0.003 min

Lab File: VV039138.D

Acq: 22 Sep 2025 12:48

Instrument :

MSVOA_V

ClientSampleId :

VSTDICC020

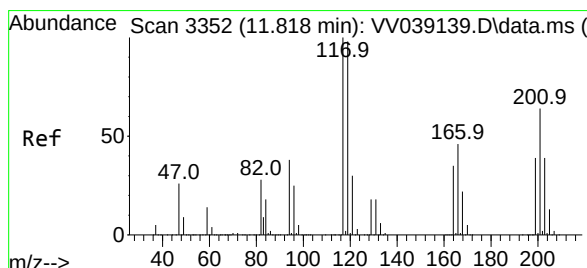
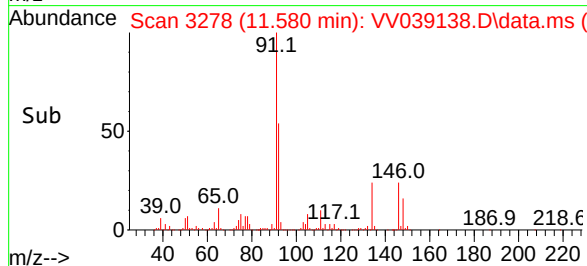
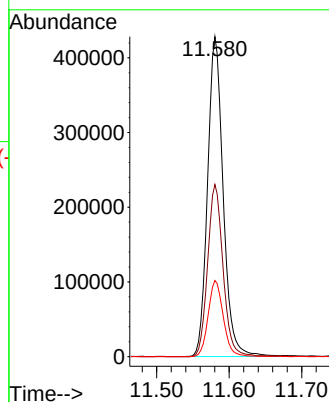
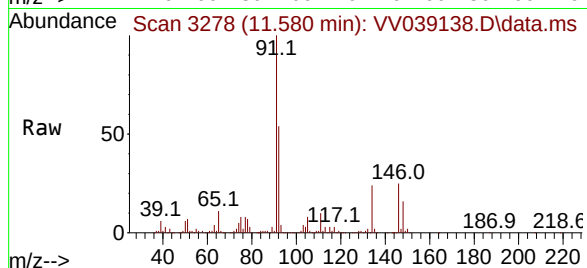
Tgt Ion: 91 Resp: 640044

Ion Ratio Lower Upper

91 100

92 53.3 26.6 79.8

134 23.1 12.1 36.3



#90

Hexachloroethane

Concen: 18.118 ug/l

RT: 11.818 min Scan# 3352

Delta R.T. 0.000 min

Lab File: VV039138.D

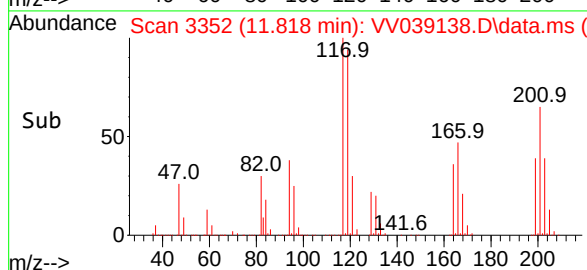
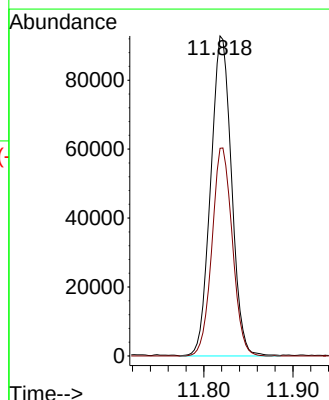
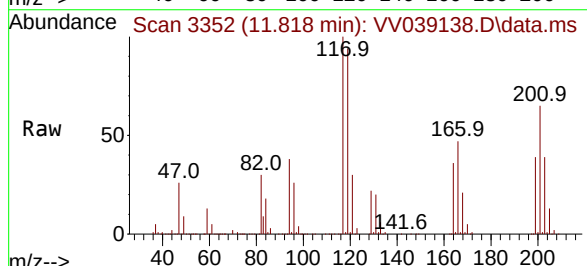
Acq: 22 Sep 2025 12:48

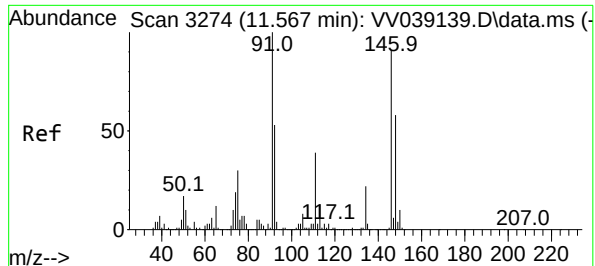
Tgt Ion: 117 Resp: 150843

Ion Ratio Lower Upper

117 100

201 63.5 32.3 96.8

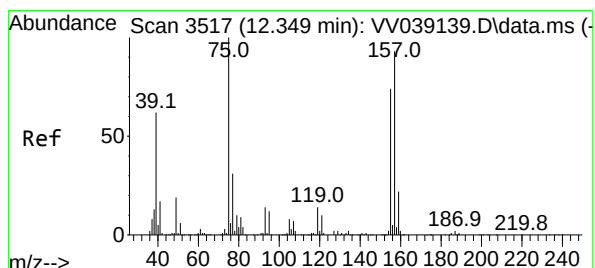
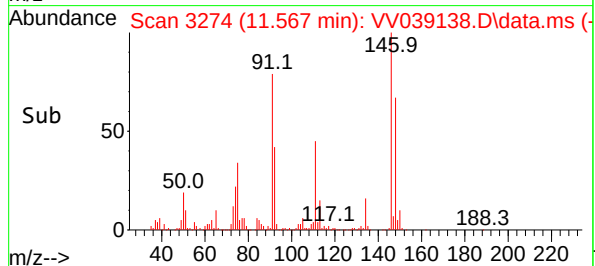
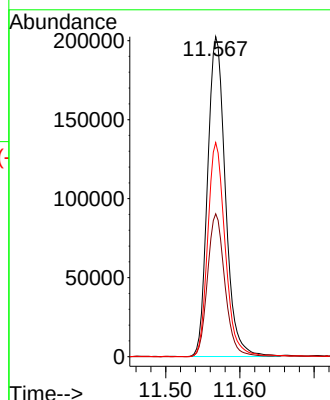
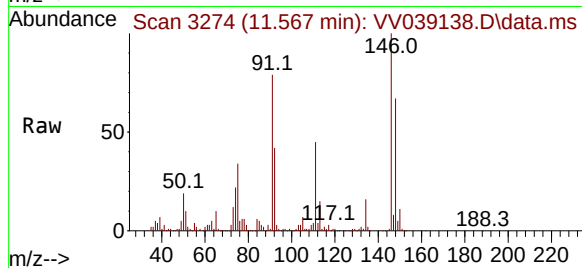




#91
1,2-Dichlorobenzene
Concen: 18.567 ug/l
RT: 11.567 min Scan# 311
Delta R.T. 0.000 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

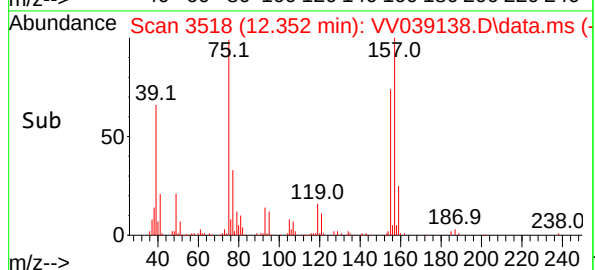
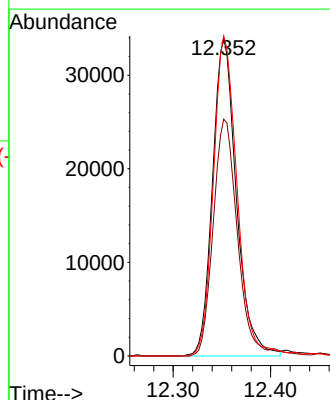
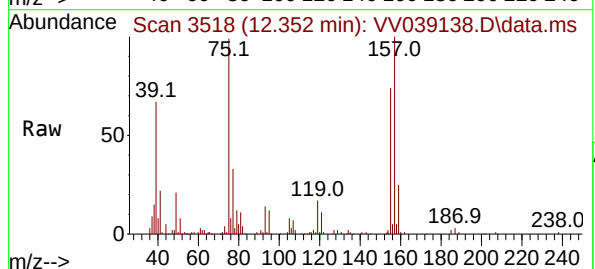
Instrument :
MSVOA_V
ClientSampleId :
VSTDIC020

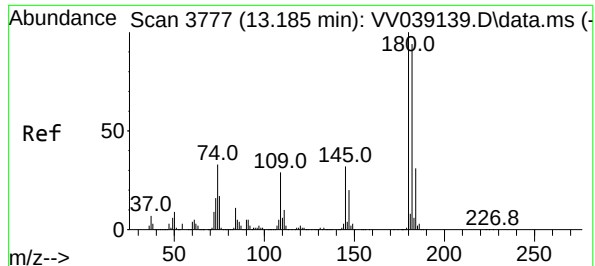
Tgt Ion:146 Resp: 336566
Ion Ratio Lower Upper
146 100
111 43.7 21.5 64.5
148 65.5 31.9 95.7



#92
1,2-Dibromo-3-Chloropropane
Concen: 19.989 ug/l
RT: 12.352 min Scan# 3518
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 75 Resp: 57671
Ion Ratio Lower Upper
75 100
155 74.8 38.6 115.8
157 100.1 49.5 148.3





#93

1,2,4-Trichlorobenzene

Concen: 18.894 ug/l

RT: 13.185 min Scan# 3777

Delta R.T. -0.000 min

Lab File: VV039138.D

Acq: 22 Sep 2025 12:48

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC020

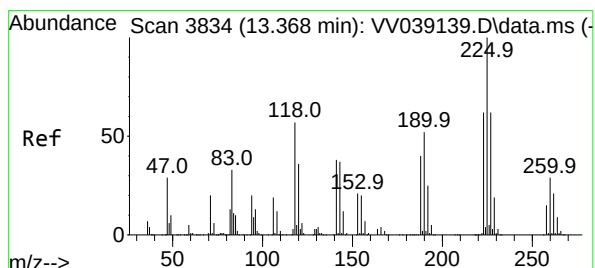
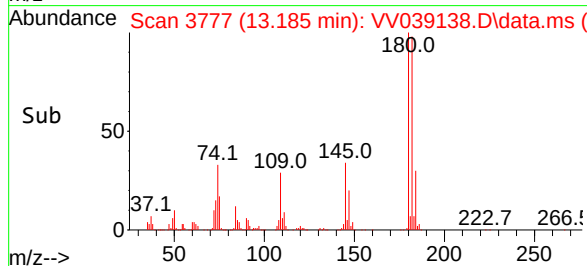
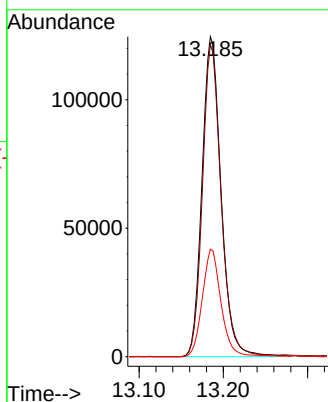
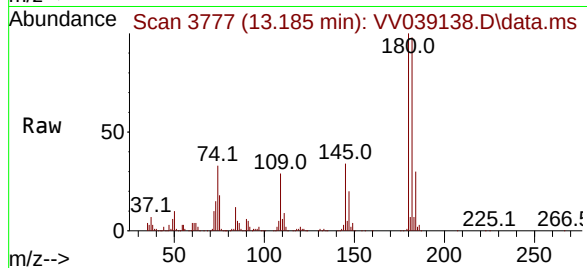
Tgt Ion:180 Resp: 196334

Ion Ratio Lower Upper

180 100

182 95.8 47.1 141.4

145 33.1 16.3 48.8



#94

Hexachlorobutadiene

Concen: 17.893 ug/l

RT: 13.368 min Scan# 3834

Delta R.T. -0.000 min

Lab File: VV039138.D

Acq: 22 Sep 2025 12:48

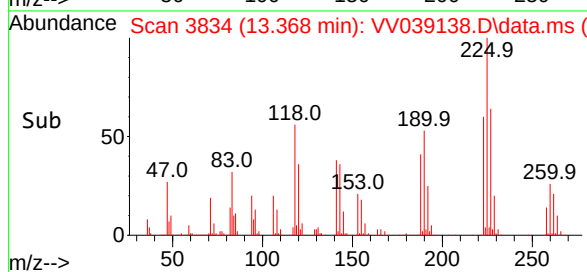
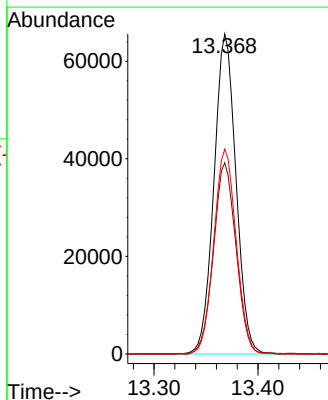
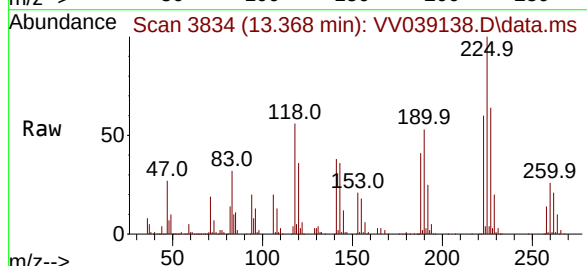
Tgt Ion:225 Resp: 96610

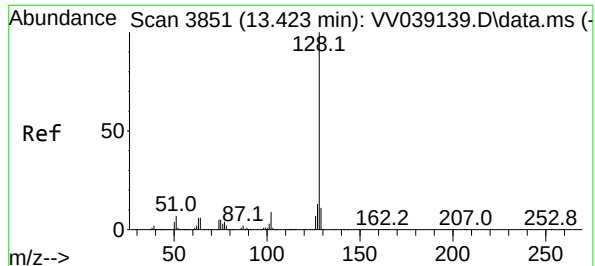
Ion Ratio Lower Upper

225 100

223 61.1 31.6 94.7

227 65.1 31.8 95.4

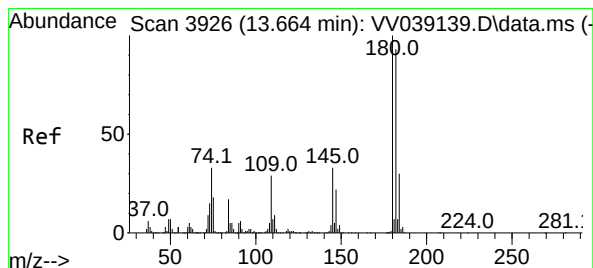
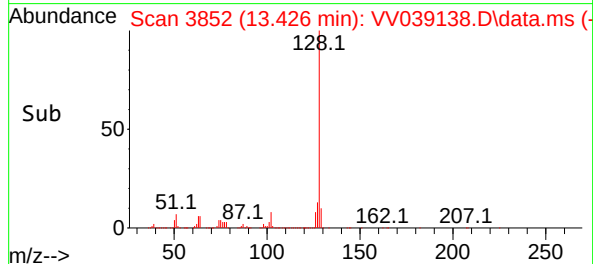
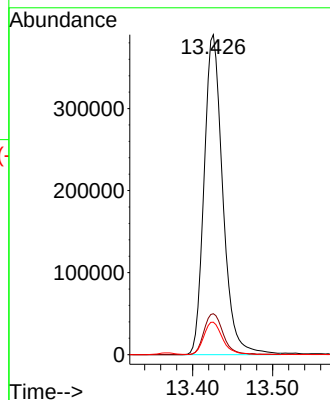
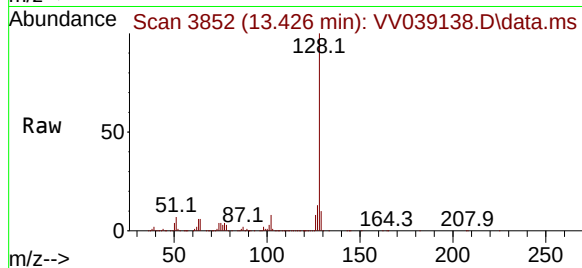




#95
Naphthalene
Concen: 18.986 ug/l
RT: 13.426 min Scan# 3851
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

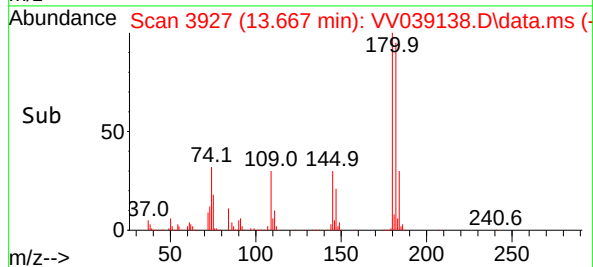
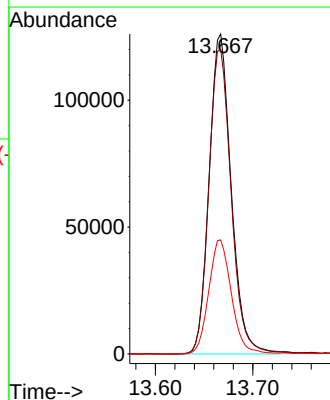
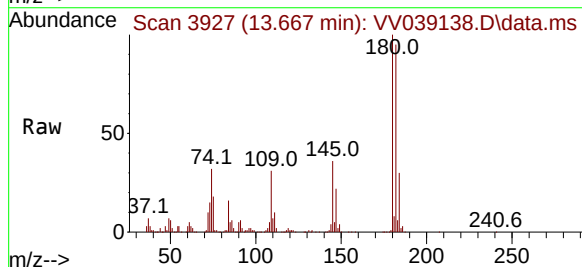
Instrument :
MSVOA_V
ClientSampleId :
VSTDIC020

Tgt Ion:128 Resp: 634557
Ion Ratio Lower Upper
128 100
127 13.3 10.3 15.5
129 10.1 8.6 13.0



#96
1,2,3-Trichlorobenzene
Concen: 18.659 ug/l
RT: 13.667 min Scan# 3927
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion:180 Resp: 198308
Ion Ratio Lower Upper
180 100
182 96.9 46.9 140.8
145 36.6 17.0 51.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
 Data File : VV039139.D
 Acq On : 22 Sep 2025 13:26
 Operator : SY/MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDICCC050

Quant Time: Sep 24 07:23:42 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 24 07:14:23 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	4.597	168	563410	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.529	114	894173	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.773	117	863906	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	516167	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.937	65	363821	44.618	ug/l	0.00
Spiked Amount	50.000	Range	81 - 118	Recovery	=	89.240%
35) Dibromofluoromethane	4.497	113	337386	46.935	ug/l	0.00
Spiked Amount	50.000	Range	80 - 119	Recovery	=	93.860%
50) Toluene-d8	7.233	98	1016135	48.130	ug/l	0.00
Spiked Amount	50.000	Range	89 - 112	Recovery	=	96.260%
62) 4-Bromofluorobenzene	9.998	95	453081	52.130	ug/l	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	=	104.260%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.121	85	416798	46.733	ug/l	100
3) Chloromethane	1.230	50	433999	45.329	ug/l	100
4) Vinyl Chloride	1.298	62	470936	45.944	ug/l	100
5) Bromomethane	1.494	94	286332	44.312	ug/l	100
6) Chloroethane	1.558	64	300232	49.734	ug/l	100
7) Trichlorofluoromethane	1.725	101	672325	45.304	ug/l	100
8) Diethyl Ether	1.918	74	251813	45.707	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.082	101	395615	44.803	ug/l	100
10) Methyl Iodide	2.195	142	442822	52.662	ug/l	100
11) Tert butyl alcohol	2.564	59	385746	223.826	ug/l	100
12) 1,1-Dichloroethene	2.082	96	379710	44.700	ug/l	100
13) Acrolein	2.008	56	74486	249.076	ug/l	100
14) Allyl chloride	2.355	41	700342	46.154	ug/l	100
15) Acrylonitrile	2.671	53	1228907	222.439	ug/l	100
16) Acetone	2.118	43	1265424	251.263	ug/l	100
17) Carbon Disulfide	2.253	76	1172348	45.126	ug/l	100
18) Methyl Acetate	2.378	43	553676	45.827	ug/l	100
19) Methyl tert-butyl Ether	2.709	73	1258060	46.476	ug/l	100
20) Methylene Chloride	2.455	84	439142	49.828	ug/l	100
21) trans-1,2-Dichloroethene	2.699	96	407938	45.109	ug/l	100
22) Diisopropyl ether	3.214	45	1419527	48.895	ug/l	100
23) Vinyl Acetate	3.185	43	6209687	244.506	ug/l	100
24) 1,1-Dichloroethane	3.114	63	781832	44.037	ug/l	100
25) 2-Butanone	3.860	43	1650213	257.105	ug/l	100
26) 2,2-Dichloropropane	3.806	77	698283	44.534	ug/l	100
27) cis-1,2-Dichloroethene	3.818	96	488972	49.026	ug/l	100
28) Bromochloromethane	4.143	49	382640	48.820	ug/l	100
29) Tetrahydrofuran	4.230	42	1039169	254.258	ug/l	100
30) Chloroform	4.275	83	839217	45.268	ug/l	100
31) Cyclohexane	4.580	56	701482	48.232	ug/l	100
32) 1,1,1-Trichloroethane	4.510	97	731030	45.547	ug/l	100
36) 1,1-Dichloropropene	4.741	75	554798	50.680	ug/l	100
37) Ethyl Acetate	3.970	43	638131	47.519	ug/l	100
38) Carbon Tetrachloride	4.732	117	628516	47.666	ug/l	100
39) Methylcyclohexane	6.043	83	736231	56.095	ug/l	100
40) Benzene	5.005	78	1779301	50.276	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VW092225\
 Data File : VW039139.D
 Acq On : 22 Sep 2025 13:26
 Operator : SY/MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDICCC050

Quant Time: Sep 24 07:23:42 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 24 07:14:23 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.153	41	295316	49.541	ug/l	100
42) 1,2-Dichloroethane	5.037	62	595216	48.000	ug/l	100
43) Isopropyl Acetate	5.188	43	956288	51.691	ug/l	100
44) Trichloroethene	5.828	130	414171	50.715	ug/l	100
45) 1,2-Dichloropropane	6.085	63	448750	51.014	ug/l	100
46) Dibromomethane	6.220	93	329073	48.876	ug/l	100
47) Bromodichloromethane	6.423	83	673646	48.398	ug/l	100
48) Methyl methacrylate	6.291	41	450230	53.193	ug/l	100
49) 1,4-Dioxane	6.288	88	133834	1006.069	ug/l	100
51) 4-Methyl-2-Pentanone	7.146	43	3273840	276.753	ug/l	100
52) Toluene	7.304	92	1099325	53.574	ug/l	100
53) t-1,3-Dichloropropene	7.571	75	650976	53.666	ug/l	100
54) cis-1,3-Dichloropropene	6.944	75	725015	54.142	ug/l	100
55) 1,1,2-Trichloroethane	7.757	97	441822	48.020	ug/l	100
56) Ethyl methacrylate	7.712	69	640636	58.632	ug/l	100
57) 1,3-Dichloropropane	7.931	76	733341	50.505	ug/l	100
58) 2-Chloroethyl Vinyl ether	6.809	63	1579407	255.700	ug/l	100
59) 2-Hexanone	8.059	43	2441880	255.630	ug/l	100
60) Dibromochloromethane	8.165	129	507043	48.365	ug/l	100
61) 1,2-Dibromoethane	8.272	107	473037	50.273	ug/l	100
64) Tetrachloroethene	7.895	164	356209	49.227	ug/l	100
65) Chlorobenzene	8.802	112	1194769	49.651	ug/l	100
66) 1,1,1,2-Tetrachloroethane	8.895	131	421762	48.507	ug/l	100
67) Ethyl Benzene	8.934	91	2057558	56.487	ug/l	100
68) m/p-Xylenes	9.059	106	1639130	116.591	ug/l	100
69) o-Xylene	9.468	106	730558	58.688	ug/l	100
70) Styrene	9.484	104	1341298	50.845	ug/l	100
71) Bromoform	9.651	173	341871	50.337	ug/l	100
73) Isopropylbenzene	9.854	105	2033373	54.313	ug/l	100
74) N-amyl acetate	9.722	43	863632	57.833	ug/l	100
75) 1,1,2,2-Tetrachloroethane	10.165	83	735590	44.844	ug/l	100
76) 1,2,3-Trichloropropane	10.194	75	541552	46.080	ug/l	100
77) Bromobenzene	10.140	156	477608	49.171	ug/l	100
78) n-propylbenzene	10.275	91	2528458	55.461	ug/l	100
79) 2-Chlorotoluene	10.345	91	1462530	53.612	ug/l	100
80) 1,3,5-Trimethylbenzene	10.464	105	1748435	56.188	ug/l	100
81) trans-1,4-Dichloro-2-b...	9.928	75	255259	52.143	ug/l	100
82) 4-Chlorotoluene	10.461	91	1722899	54.466	ug/l	100
83) tert-Butylbenzene	10.789	119	1663245	53.602	ug/l	100
84) 1,2,4-Trimethylbenzene	10.837	105	1743425	57.709	ug/l	100
85) sec-Butylbenzene	11.011	105	2252781	54.737	ug/l	100
86) p-Isopropyltoluene	11.165	119	1900412	55.479	ug/l	100
87) 1,3-Dichlorobenzene	11.104	146	958701	48.769	ug/l	100
88) 1,4-Dichlorobenzene	11.194	146	998426	45.957	ug/l	100
89) n-Butylbenzene	11.577	91	1864844	57.003	ug/l	100
90) Hexachloroethane	11.818	117	375818	44.553	ug/l	100
91) 1,2-Dichlorobenzene	11.567	146	897135	48.848	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.349	75	147329	49.928	ug/l	100
93) 1,2,4-Trichlorobenzene	13.185	180	555323	52.747	ug/l	100
94) Hexachlorobutadiene	13.368	225	247695	45.279	ug/l	100
95) Naphthalene	13.423	128	1968567	58.135	ug/l	100
96) 1,2,3-Trichlorobenzene	13.664	180	571563	53.081	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039139.D
Acq On : 22 Sep 2025 13:26
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Quant Time: Sep 24 07:23:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 2025
Response via : Initial Calibration

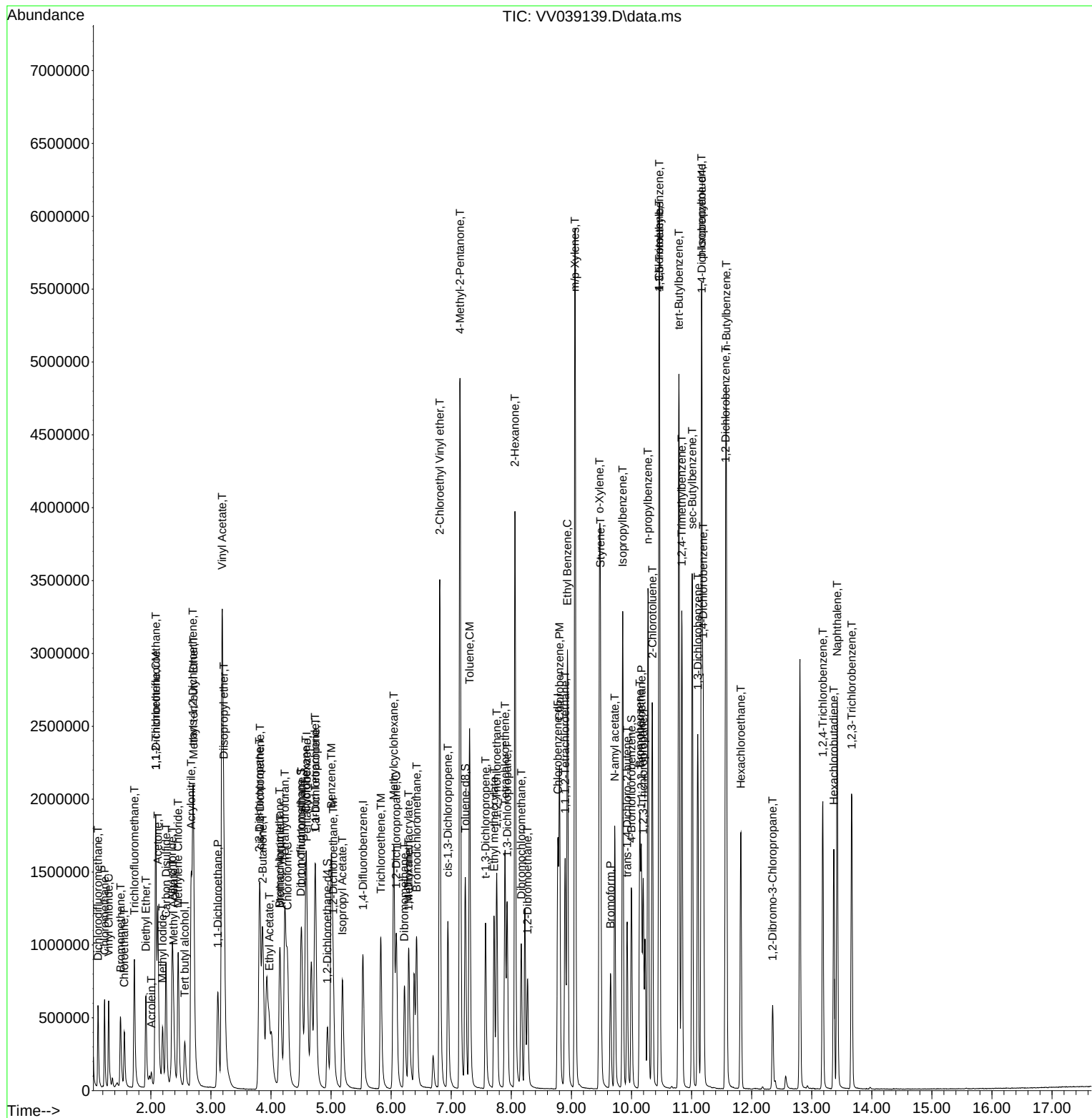
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

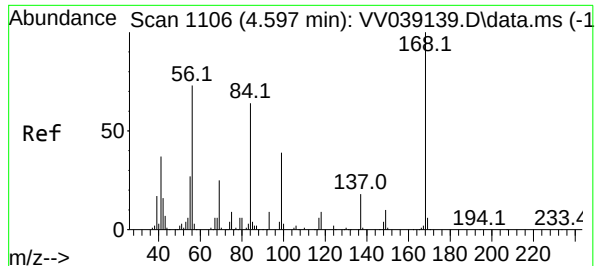
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039139.D
Acq On : 22 Sep 2025 13:26
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Quant Time: Sep 24 07:23:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 2025
Response via : Initial Calibration

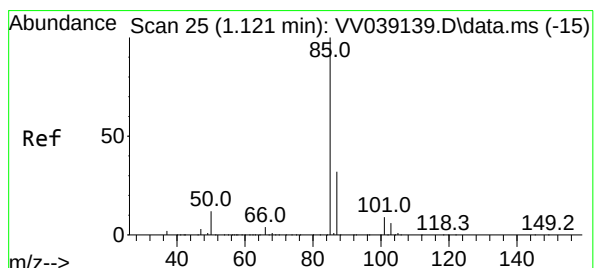
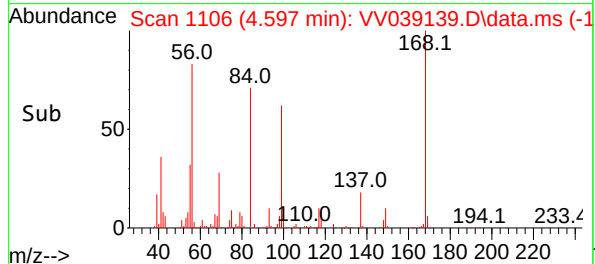
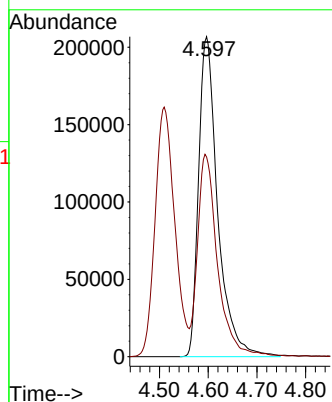
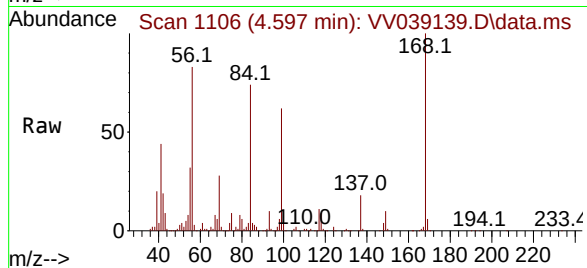




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.597 min Scan# 1106
Delta R.T. -0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

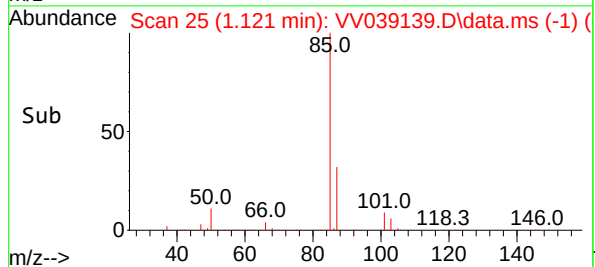
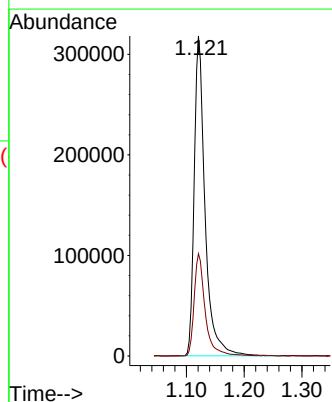
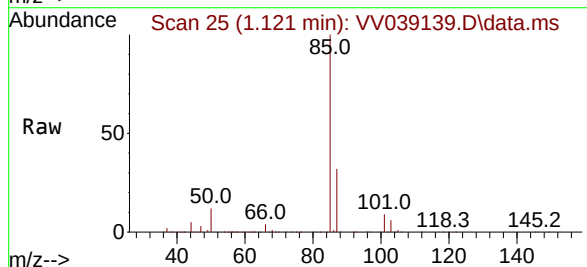
Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

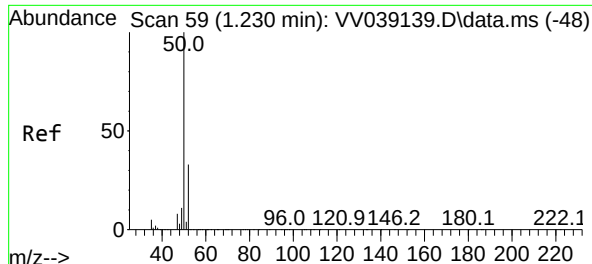
Tgt Ion:168 Resp: 563410
Ion Ratio Lower Upper
168 100
99 62.0 49.6 74.4



#2
Dichlorodifluoromethane
Concen: 46.733 ug/l
RT: 1.121 min Scan# 25
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 85 Resp: 416798
Ion Ratio Lower Upper
85 100
87 31.9 16.0 47.9





#3

Chloromethane

Concen: 45.329 ug/l

RT: 1.230 min Scan# 59

Delta R.T. 0.000 min

Lab File: VV039139.D

Acq: 22 Sep 2025 13:26

Instrument :

MSVOA_V

ClientSampleId :

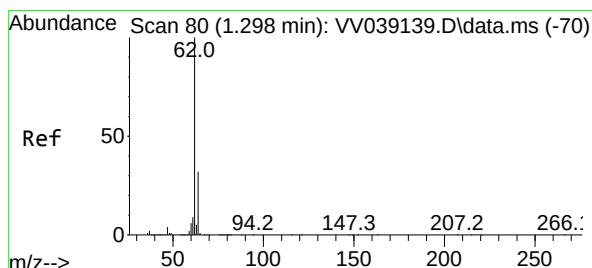
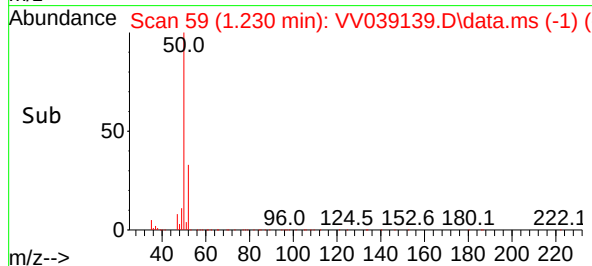
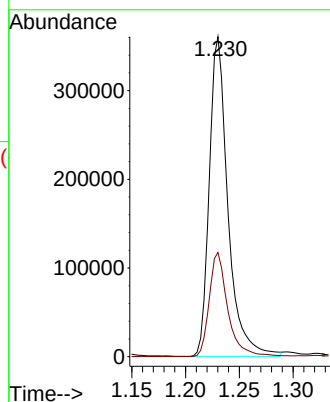
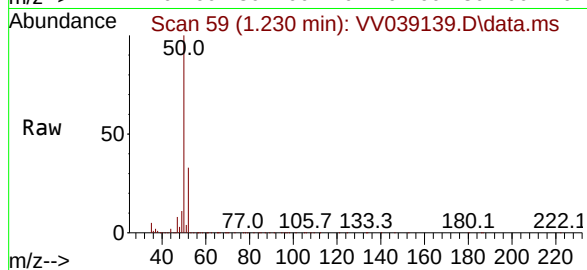
VSTDICCC050

Tgt Ion: 50 Resp: 433999

Ion Ratio Lower Upper

50 100

52 32.5 26.0 39.0



#4

Vinyl Chloride

Concen: 45.944 ug/l

RT: 1.298 min Scan# 80

Delta R.T. 0.000 min

Lab File: VV039139.D

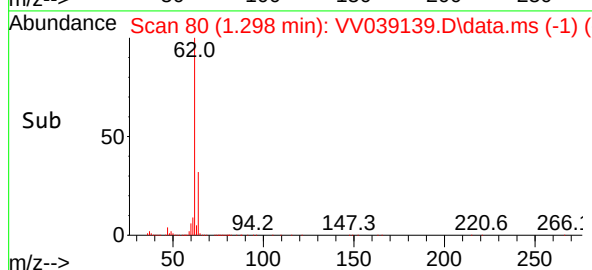
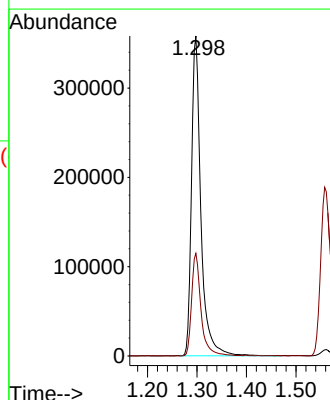
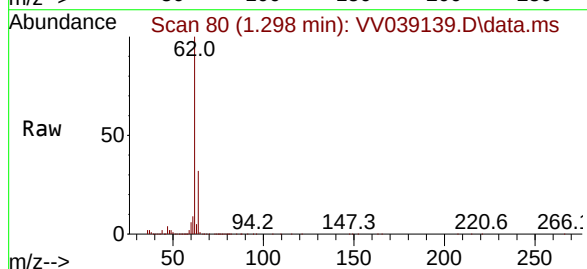
Acq: 22 Sep 2025 13:26

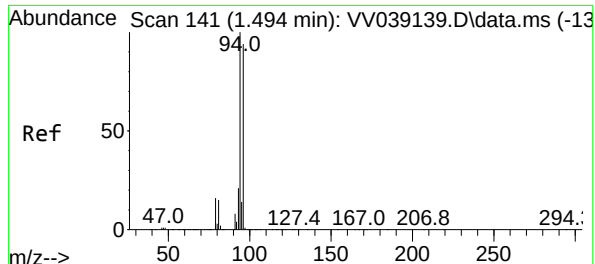
Tgt Ion: 62 Resp: 470936

Ion Ratio Lower Upper

62 100

64 32.0 25.6 38.4

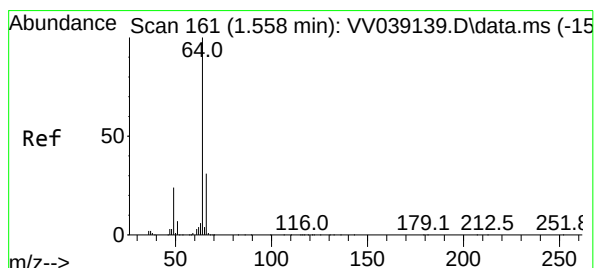
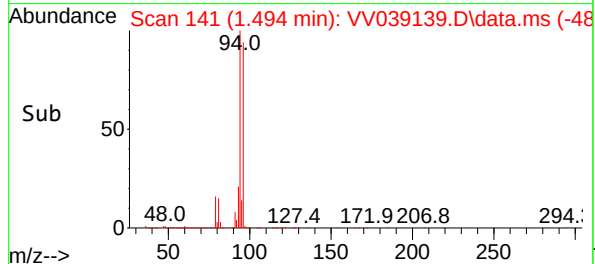
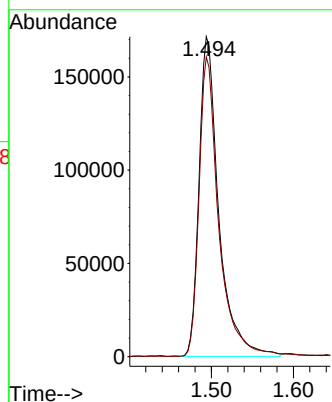
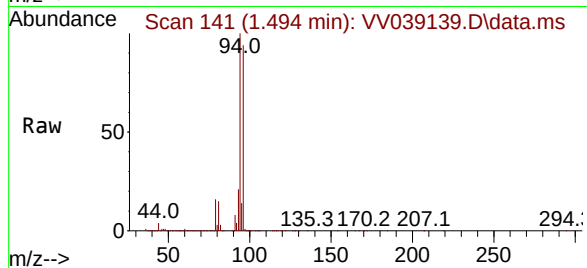




#5
Bromomethane
Concen: 44.312 ug/l
RT: 1.494 min Scan# 141
Delta R.T. -0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

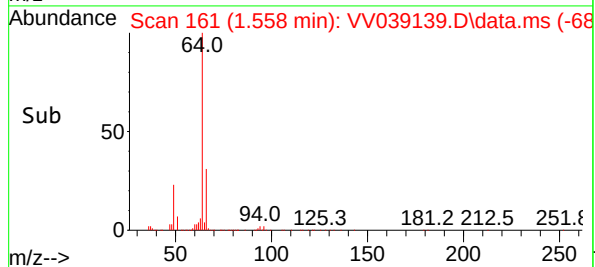
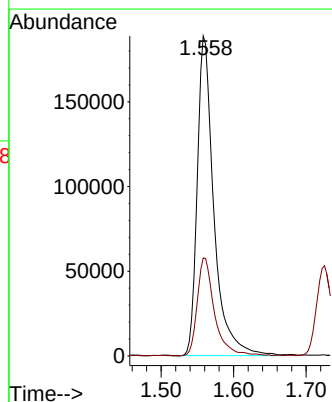
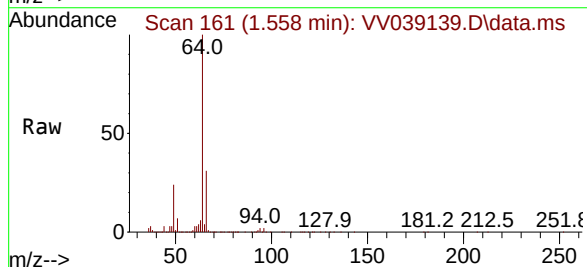
Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

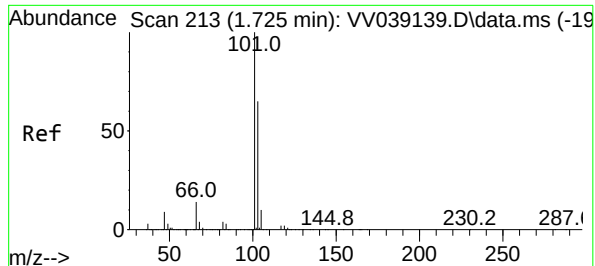
Tgt Ion: 94 Resp: 286332
Ion Ratio Lower Upper
94 100
96 93.6 74.9 112.3



#6
Chloroethane
Concen: 49.734 ug/l
RT: 1.558 min Scan# 161
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 64 Resp: 300232
Ion Ratio Lower Upper
64 100
66 30.7 24.6 36.8

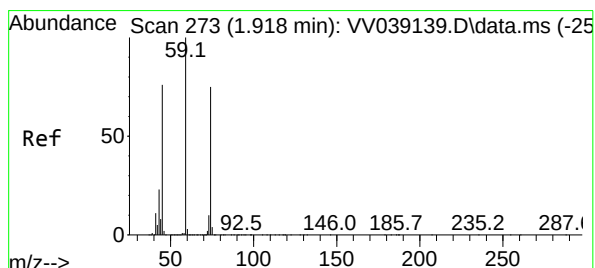
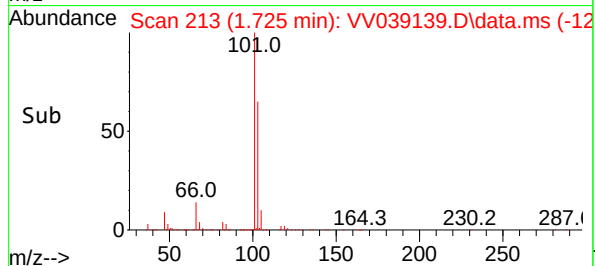
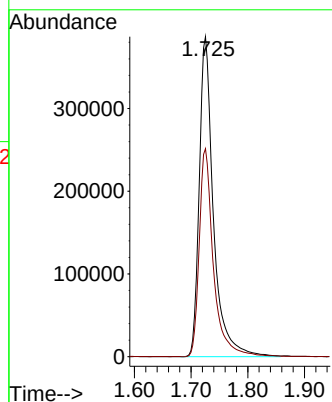
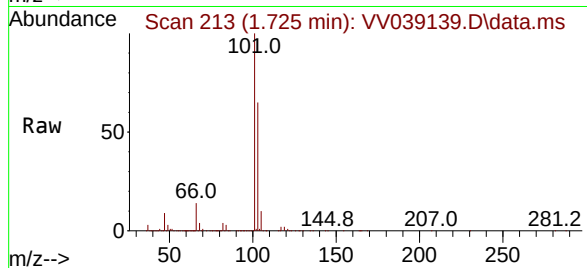




#7
Trichlorofluoromethane
Concen: 45.304 ug/l
RT: 1.725 min Scan# 213
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

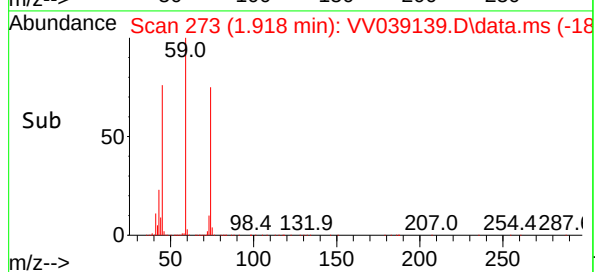
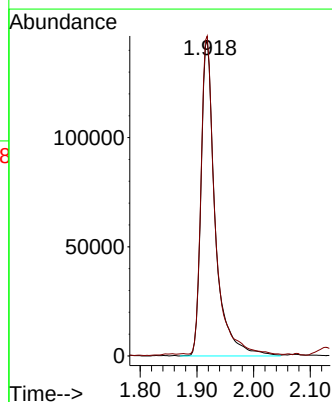
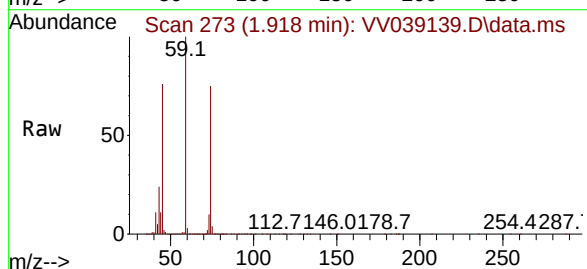
Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

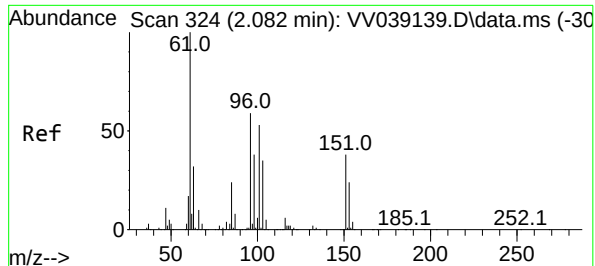
Tgt Ion:101 Resp: 672325
Ion Ratio Lower Upper
101 100
103 65.0 52.0 78.0



#8
Diethyl Ether
Concen: 45.707 ug/l
RT: 1.918 min Scan# 273
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 74 Resp: 251813
Ion Ratio Lower Upper
74 100
45 99.2 49.6 148.8

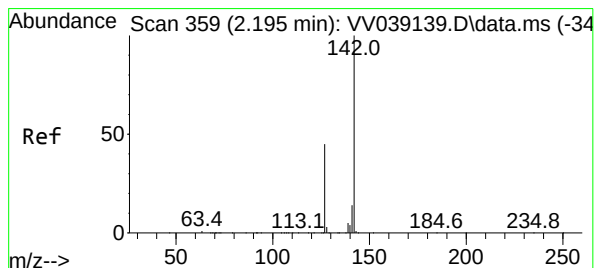
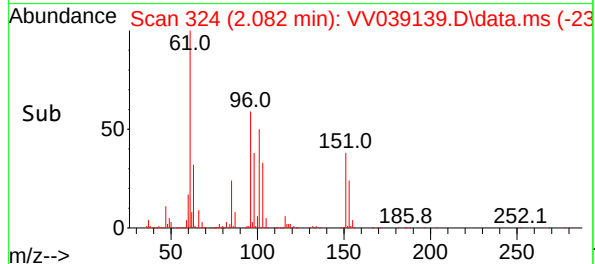
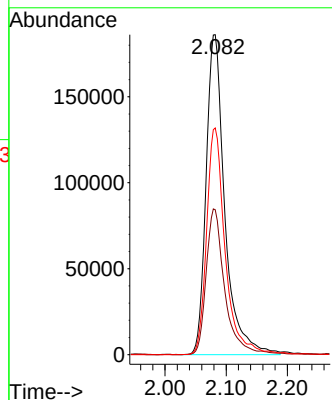
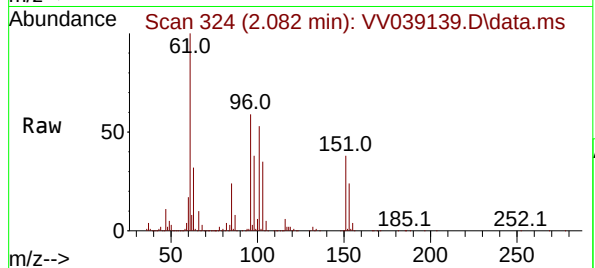




#9
1,1,2-Trichlorotrifluoroethane
Concen: 44.803 ug/l
RT: 2.082 min Scan# 311
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

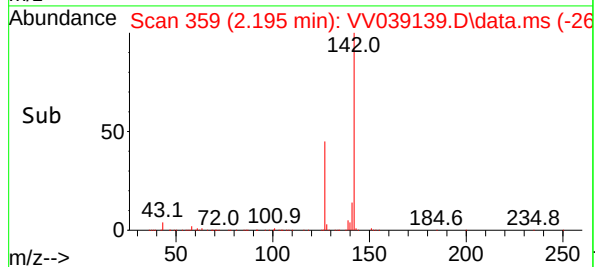
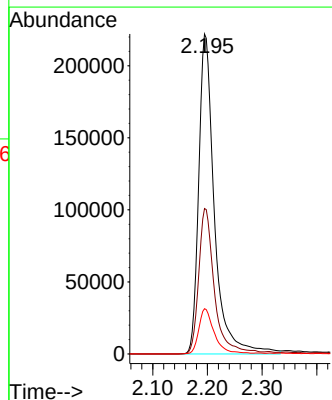
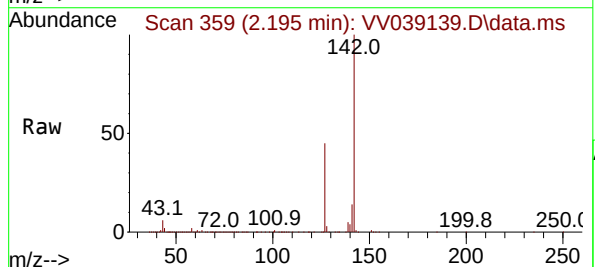
Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

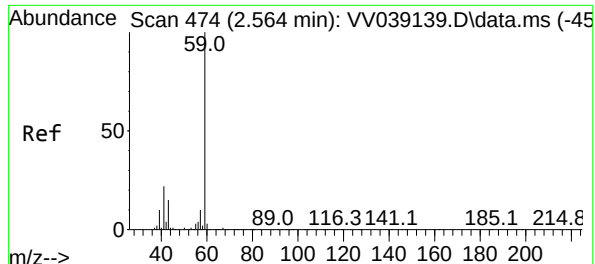
Tgt Ion:101 Resp: 395615
Ion Ratio Lower Upper
101 100
85 45.2 36.2 54.2
151 70.4 56.3 84.5



#10
Methyl Iodide
Concen: 52.662 ug/l
RT: 2.195 min Scan# 359
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion:142 Resp: 442822
Ion Ratio Lower Upper
142 100
127 45.4 36.3 54.5
141 14.0 11.2 16.8





#11

Tert butyl alcohol

Concen: 223.826 ug/l

RT: 2.564 min Scan# 474

Delta R.T. 0.000 min

Lab File: VV039139.D

Acq: 22 Sep 2025 13:26

Instrument :

MSVOA_V

ClientSampleId :

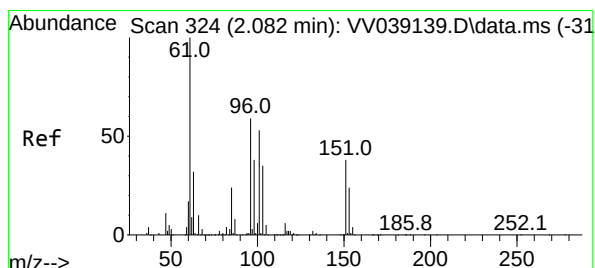
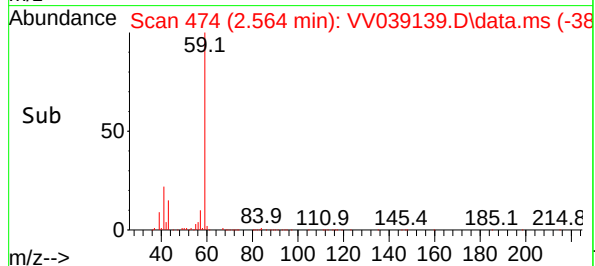
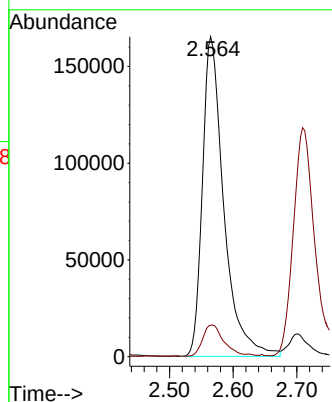
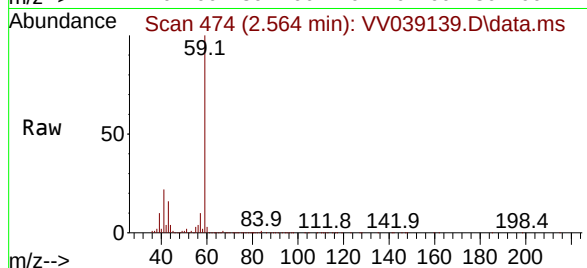
VSTDICCC050

Tgt Ion: 59 Resp: 385746

Ion Ratio Lower Upper

59 100

57 9.8 7.8 11.8



#12

1,1-Dichloroethene

Concen: 44.700 ug/l

RT: 2.082 min Scan# 324

Delta R.T. 0.000 min

Lab File: VV039139.D

Acq: 22 Sep 2025 13:26

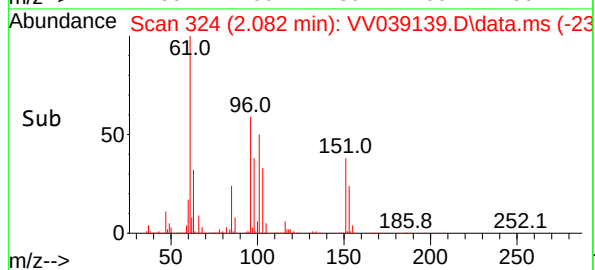
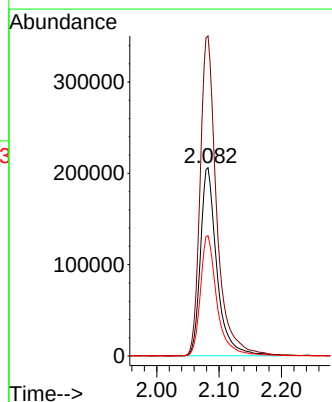
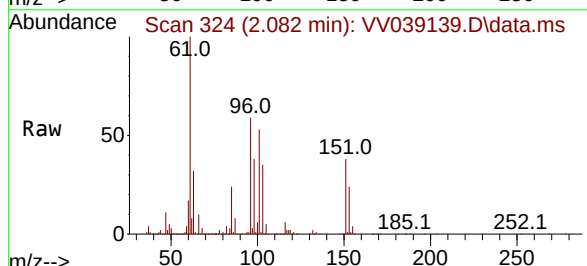
Tgt Ion: 96 Resp: 379710

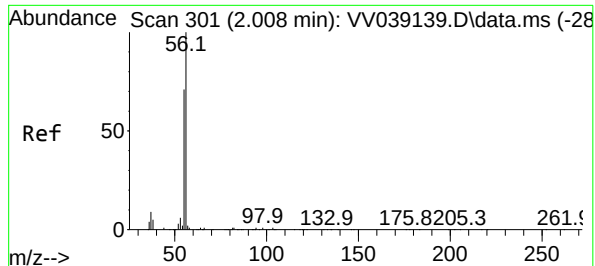
Ion Ratio Lower Upper

96 100

61 170.0 136.0 204.0

98 63.8 51.0 76.6





#13

Acrolein

Concen: 249.076 ug/l

RT: 2.008 min Scan# 301

Delta R.T. 0.000 min

Lab File: VV039139.D

Acq: 22 Sep 2025 13:26

Instrument :

MSVOA_V

ClientSampleId :

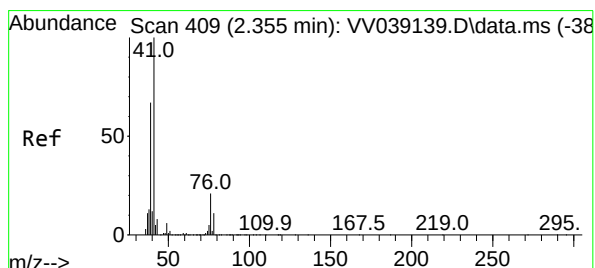
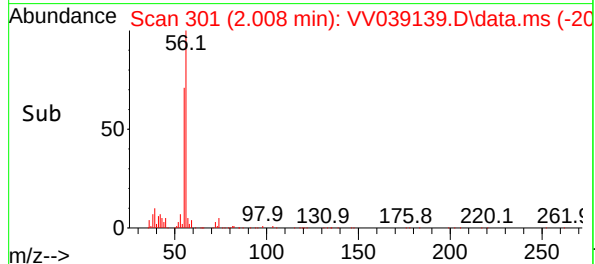
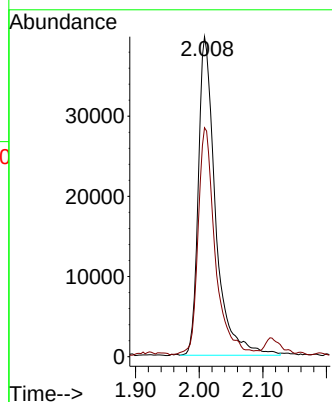
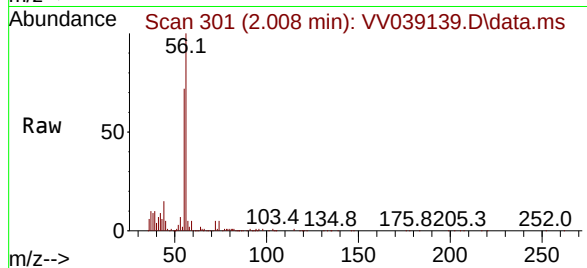
VSTDICCC050

Tgt Ion: 56 Resp: 74486

Ion Ratio Lower Upper

56 100

55 70.3 56.2 84.4



#14

Allyl chloride

Concen: 46.154 ug/l

RT: 2.355 min Scan# 409

Delta R.T. 0.000 min

Lab File: VV039139.D

Acq: 22 Sep 2025 13:26

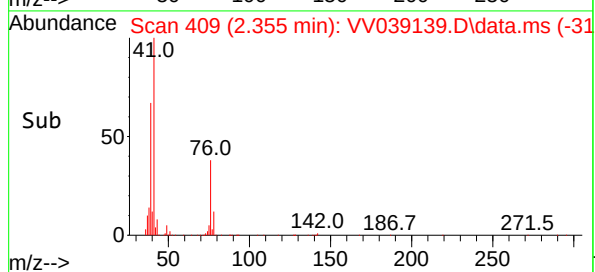
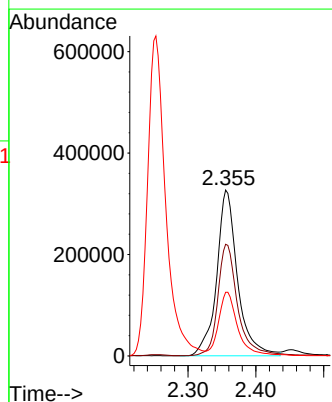
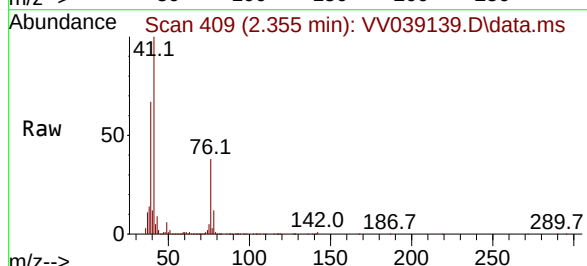
Tgt Ion: 41 Resp: 700342

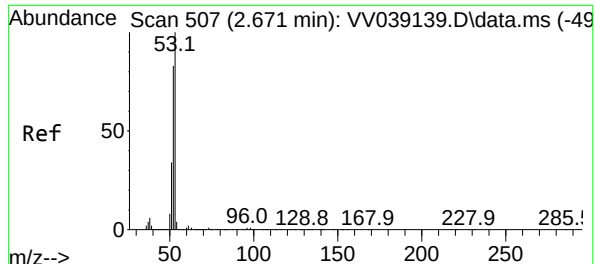
Ion Ratio Lower Upper

41 100

39 63.8 51.0 76.6

76 35.3 28.2 42.4





#15

Acrylonitrile

Concen: 222.439 ug/l

RT: 2.671 min Scan# 507

Delta R.T. 0.000 min

Lab File: VV039139.D

Acq: 22 Sep 2025 13:26

Instrument :

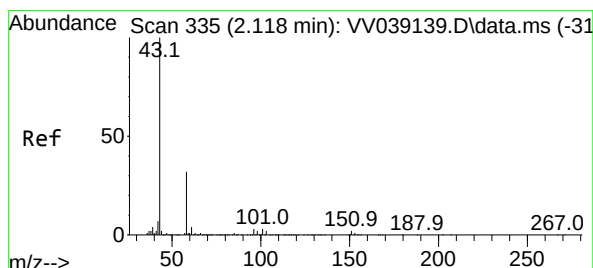
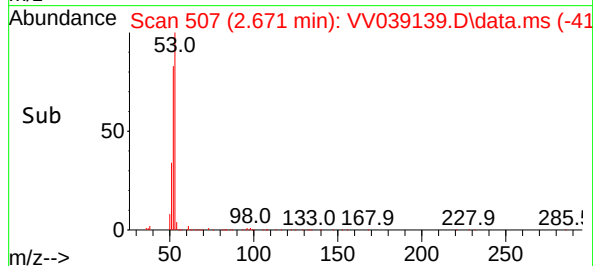
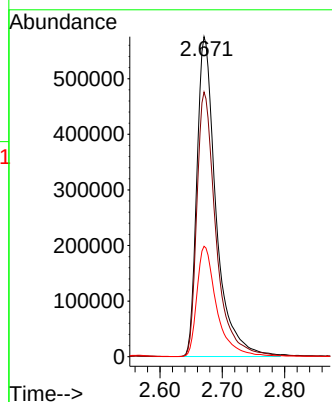
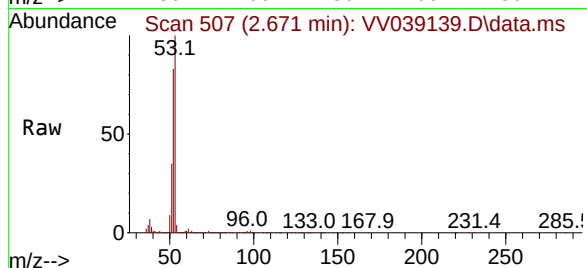
MSVOA_V

ClientSampleId :

VSTDICCC050

Tgt Ion: 53 Resp: 1228907

Ion	Ratio	Lower	Upper
53	100		
52	82.6	66.1	99.1
51	35.6	28.5	42.7



#16

Acetone

Concen: 251.263 ug/l

RT: 2.118 min Scan# 335

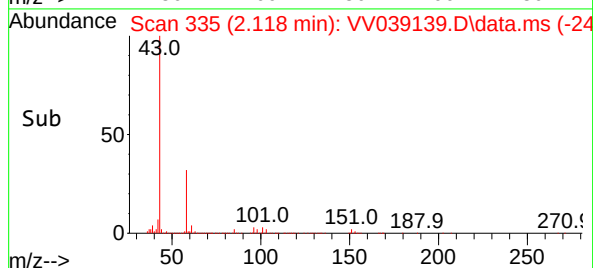
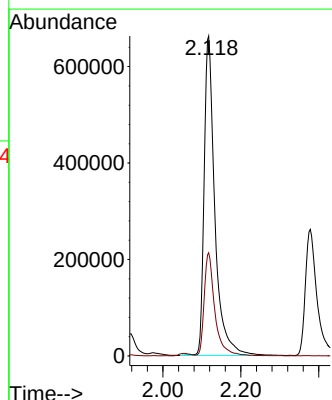
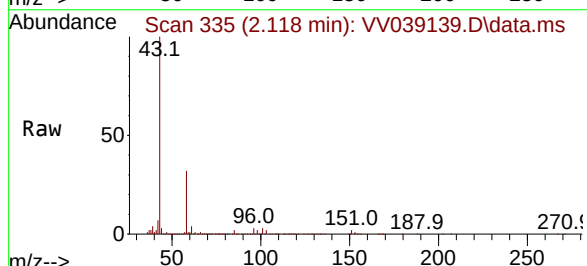
Delta R.T. -0.000 min

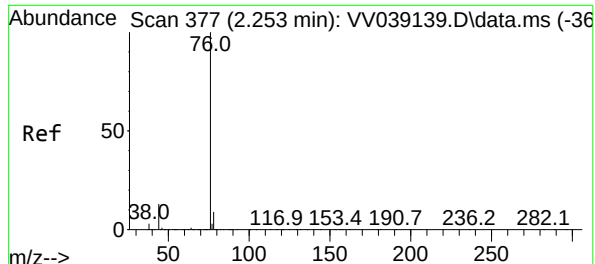
Lab File: VV039139.D

Acq: 22 Sep 2025 13:26

Tgt Ion: 43 Resp: 1265424

Ion	Ratio	Lower	Upper
43	100		
58	32.2	25.8	38.6





#17

Carbon Disulfide

Concen: 45.126 ug/l

RT: 2.253 min Scan# 31

Delta R.T. 0.000 min

Lab File: VV039139.D

Acq: 22 Sep 2025 13:26

Instrument :

MSVOA_V

ClientSampleId :

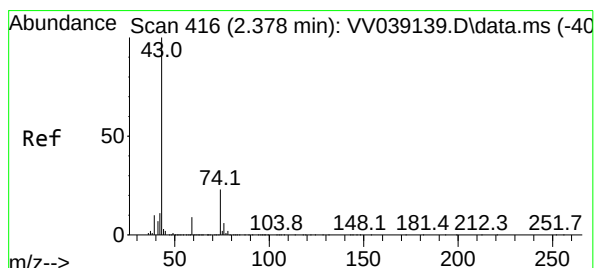
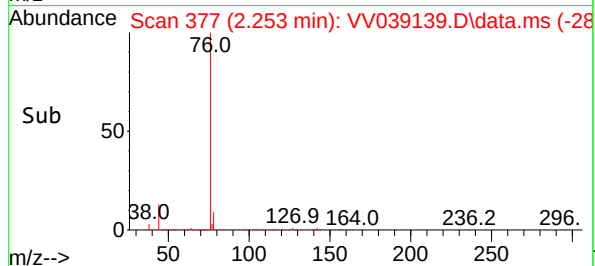
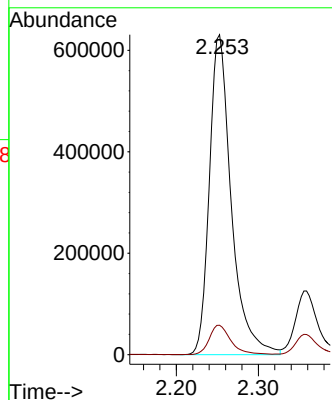
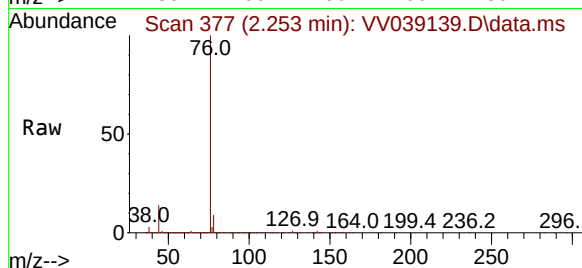
VSTDICCC050

Tgt Ion: 76 Resp: 1172348

Ion Ratio Lower Upper

76 100

78 9.2 7.4 11.0



#18

Methyl Acetate

Concen: 45.827 ug/l

RT: 2.378 min Scan# 416

Delta R.T. 0.000 min

Lab File: VV039139.D

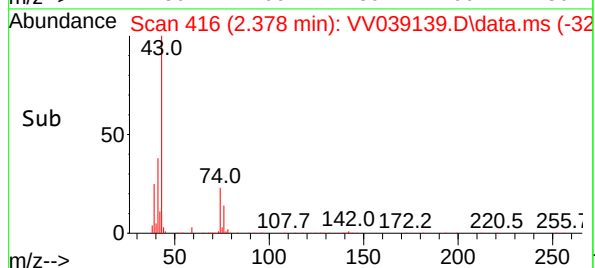
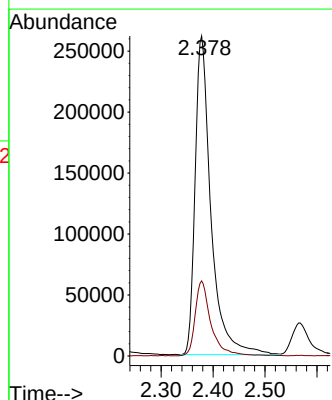
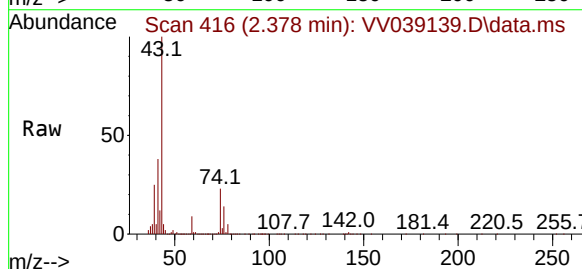
Acq: 22 Sep 2025 13:26

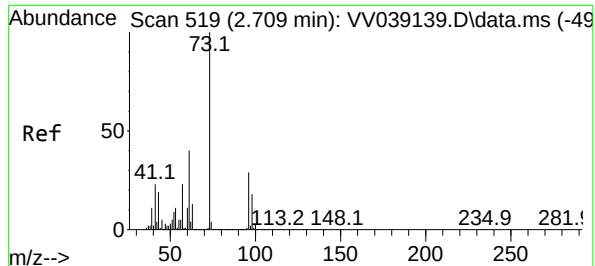
Tgt Ion: 43 Resp: 553676

Ion Ratio Lower Upper

43 100

74 23.2 18.6 27.8





#19

Methyl tert-butyl Ether

Concen: 46.476 ug/l

RT: 2.709 min Scan# 519

Delta R.T. 0.000 min

Lab File: VV039139.D

Acq: 22 Sep 2025 13:26

Instrument :

MSVOA_V

ClientSampleId :

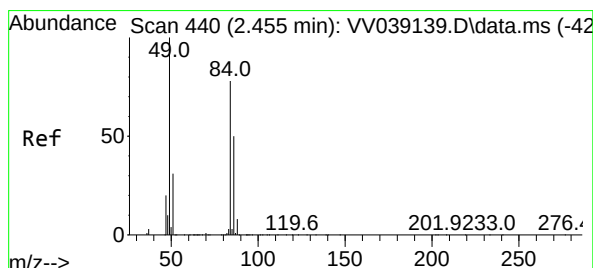
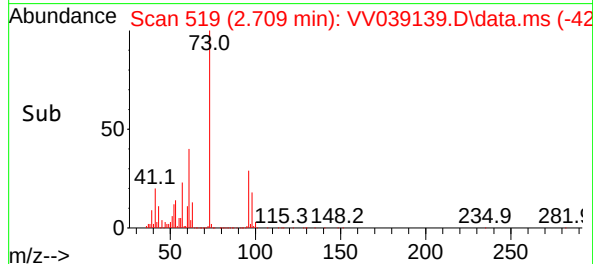
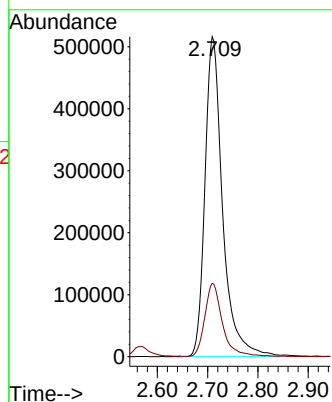
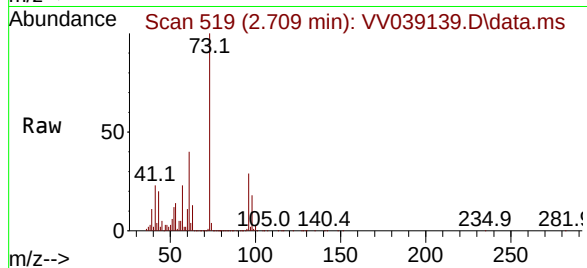
VSTDICCC050

Tgt Ion: 73 Resp: 1258060

Ion Ratio Lower Upper

73 100

57 22.8 18.2 27.4



#20

Methylene Chloride

Concen: 49.828 ug/l

RT: 2.455 min Scan# 440

Delta R.T. 0.000 min

Lab File: VV039139.D

Acq: 22 Sep 2025 13:26

Tgt Ion: 84 Resp: 439142

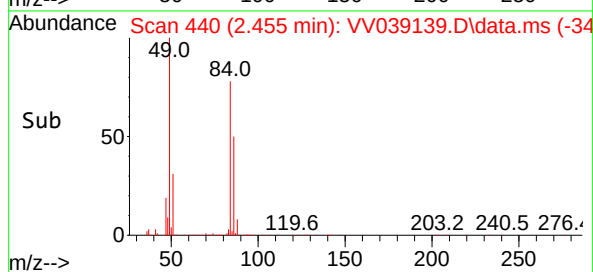
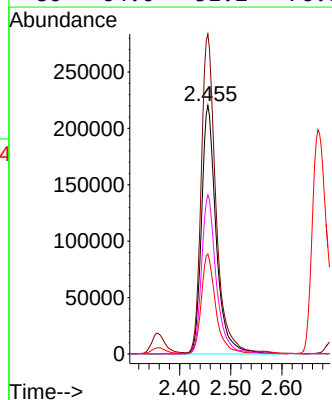
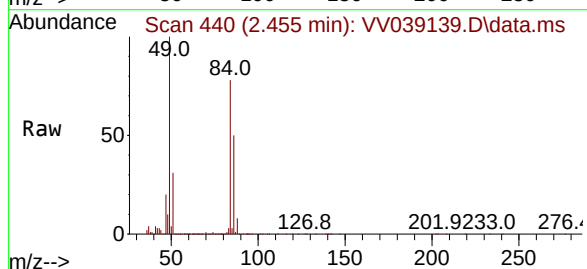
Ion Ratio Lower Upper

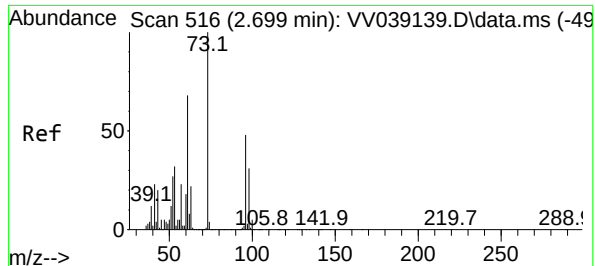
84 100

49 128.5 102.8 154.2

51 39.9 31.9 47.9

86 64.0 51.2 76.8





#21

trans-1,2-Dichloroethene

Concen: 45.109 ug/l

RT: 2.699 min Scan# 516

Delta R.T. 0.000 min

Lab File: VV039139.D

Acq: 22 Sep 2025 13:26

Instrument :

MSVOA_V

ClientSampleId :

VSTDICCC050

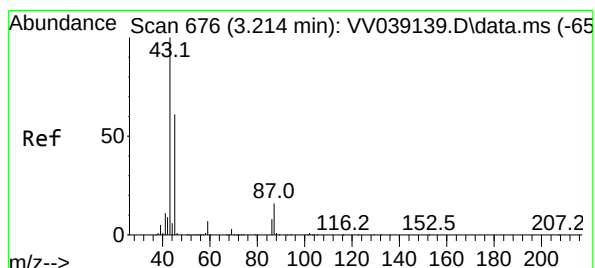
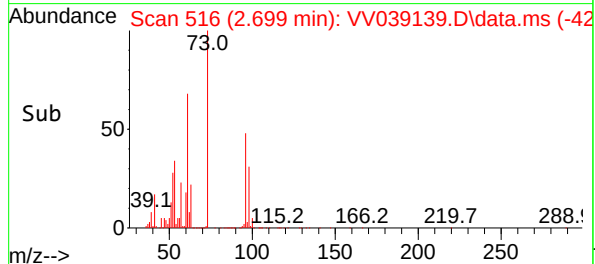
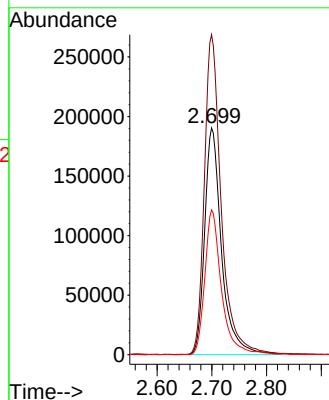
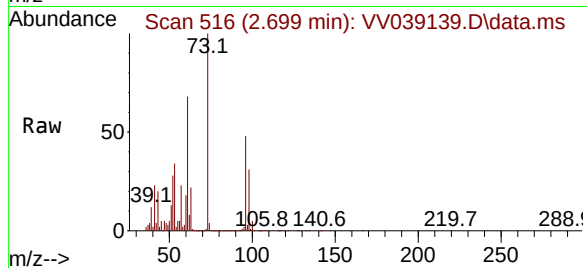
Tgt Ion: 96 Resp: 407938

Ion Ratio Lower Upper

96 100

61 141.0 112.8 169.2

98 63.9 51.1 76.7



#22

Diisopropyl ether

Concen: 48.895 ug/l

RT: 3.214 min Scan# 676

Delta R.T. 0.000 min

Lab File: VV039139.D

Acq: 22 Sep 2025 13:26

Tgt Ion: 45 Resp: 1419527

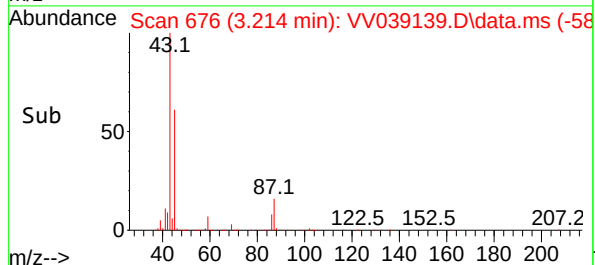
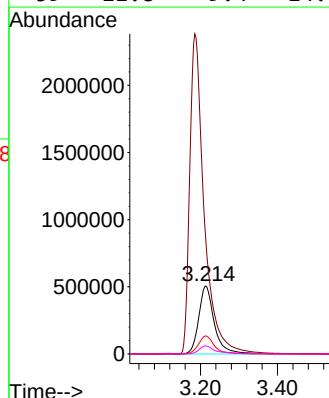
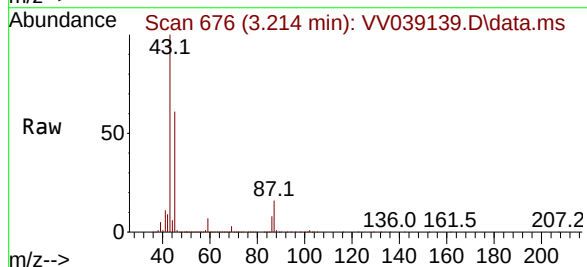
Ion Ratio Lower Upper

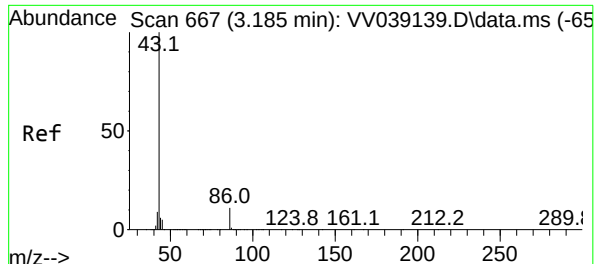
45 100

43 163.6 130.9 196.3

87 26.4 21.1 31.7

59 11.8 9.4 14.2





#23

Vinyl Acetate

Concen: 244.506 ug/l

RT: 3.185 min Scan# 667

Delta R.T. 0.000 min

Lab File: VV039139.D

Acq: 22 Sep 2025 13:26

Instrument :

MSVOA_V

ClientSampleId :

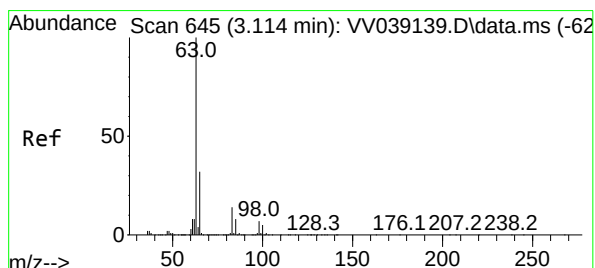
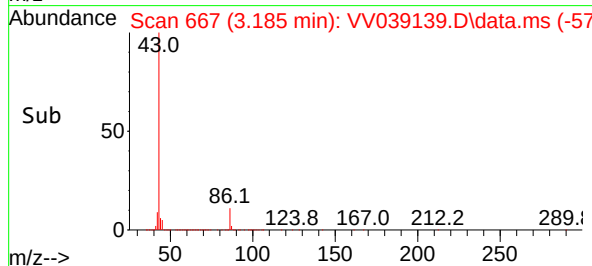
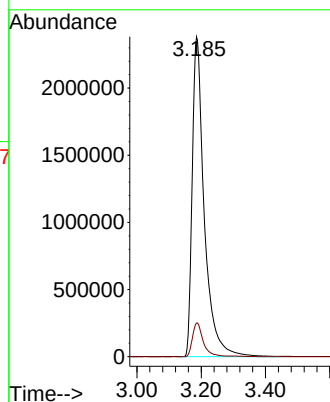
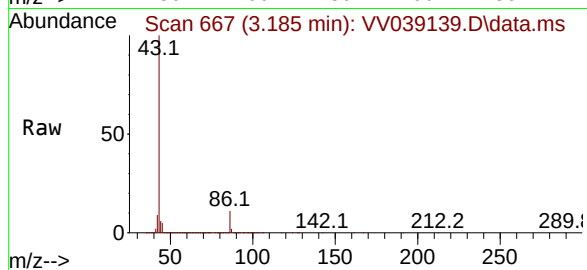
VSTDICCC050

Tgt Ion: 43 Resp: 6209687

Ion Ratio Lower Upper

43 100

86 10.5 8.4 12.6



#24

1,1-Dichloroethane

Concen: 44.037 ug/l

RT: 3.114 min Scan# 645

Delta R.T. 0.000 min

Lab File: VV039139.D

Acq: 22 Sep 2025 13:26

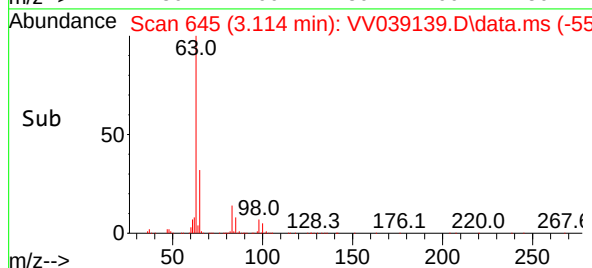
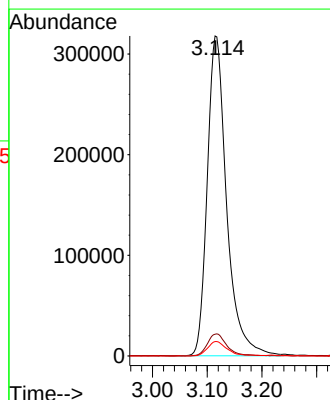
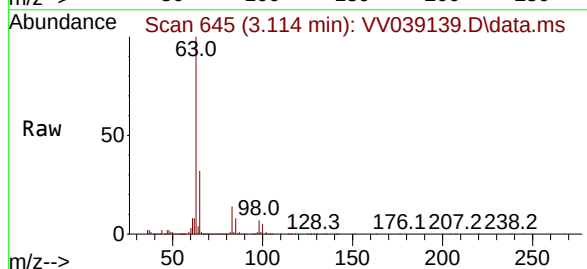
Tgt Ion: 63 Resp: 781832

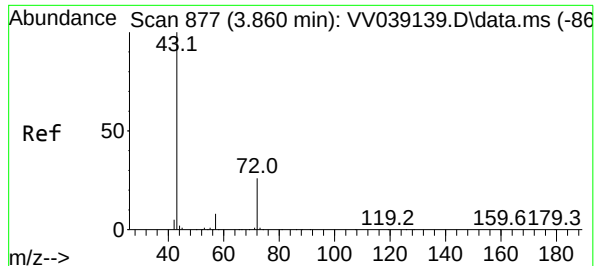
Ion Ratio Lower Upper

63 100

98 6.8 3.4 10.2

100 4.4 2.2 6.6





#25

2-Butanone

Concen: 257.105 ug/l

RT: 3.860 min Scan# 877

Delta R.T. 0.000 min

Lab File: VV039139.D

Acq: 22 Sep 2025 13:26

Instrument :

MSVOA_V

ClientSampleId :

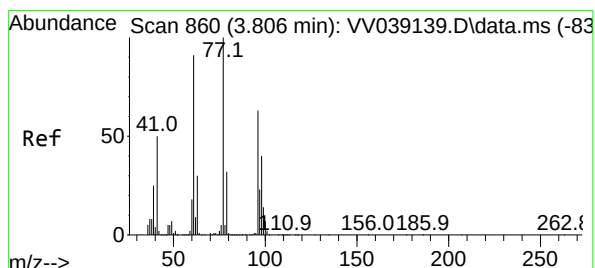
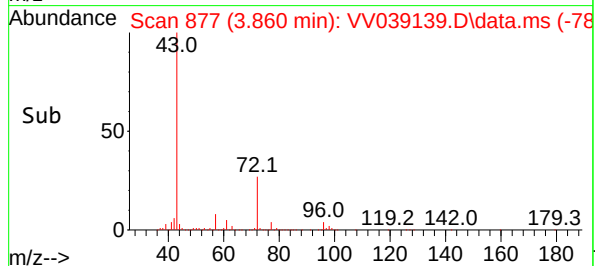
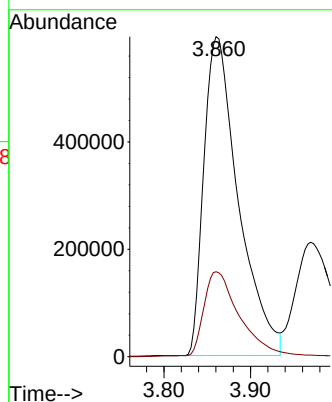
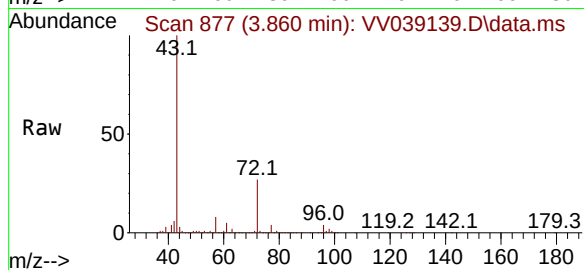
VSTDICCC050

Tgt Ion: 43 Resp: 1650213

Ion Ratio Lower Upper

43 100

72 26.3 21.0 31.6



#26

2,2-Dichloropropane

Concen: 44.534 ug/l

RT: 3.806 min Scan# 860

Delta R.T. 0.000 min

Lab File: VV039139.D

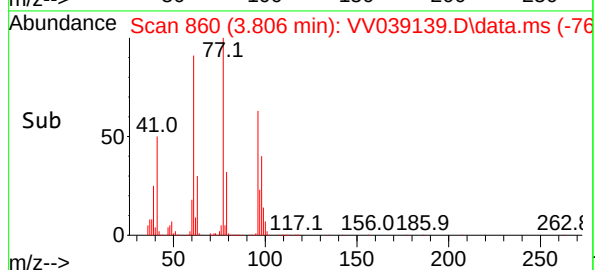
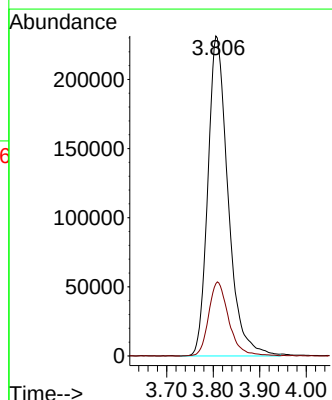
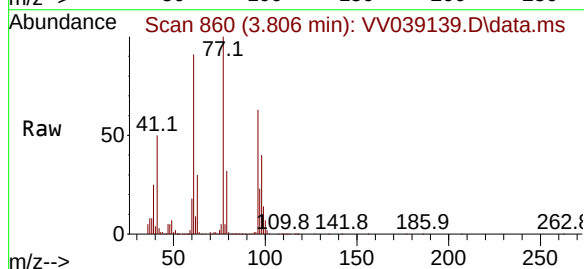
Acq: 22 Sep 2025 13:26

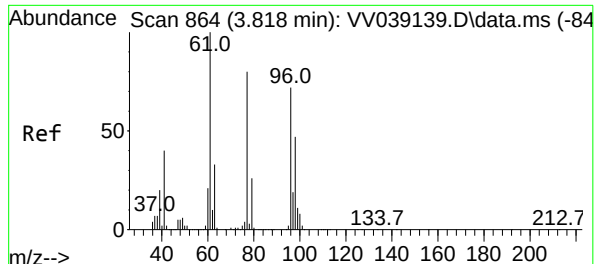
Tgt Ion: 77 Resp: 698283

Ion Ratio Lower Upper

77 100

97 23.1 11.6 34.7





#27

cis-1,2-Dichloroethene

Concen: 49.026 ug/l

RT: 3.818 min Scan# 864

Delta R.T. 0.000 min

Lab File: VV039139.D

Acq: 22 Sep 2025 13:26

Instrument :

MSVOA_V

ClientSampleId :

VSTDICCC050

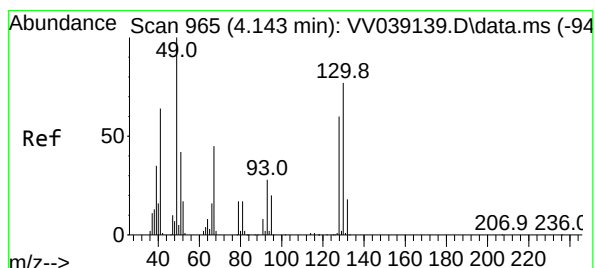
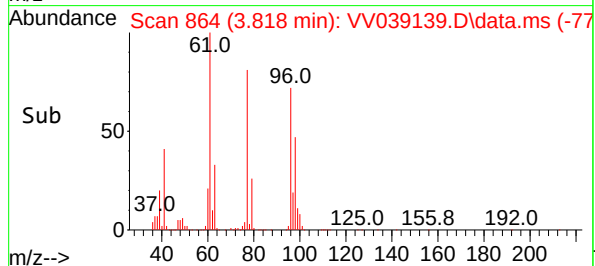
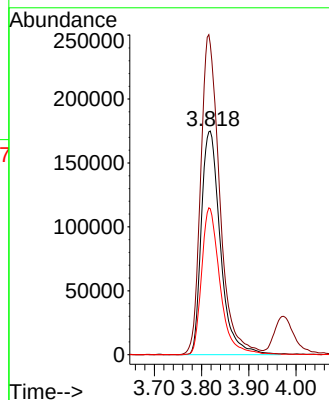
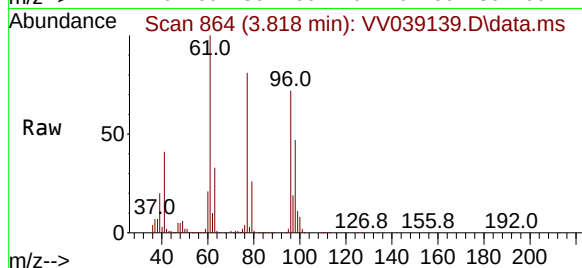
Tgt Ion: 96 Resp: 488972

Ion Ratio Lower Upper

96 100

61 143.2 0.0 286.4

98 63.3 0.0 126.6



#28

Bromochloromethane

Concen: 48.820 ug/l

RT: 4.143 min Scan# 965

Delta R.T. 0.000 min

Lab File: VV039139.D

Acq: 22 Sep 2025 13:26

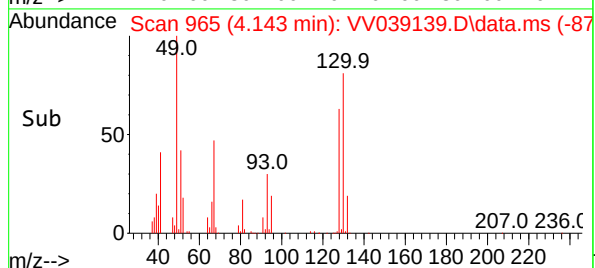
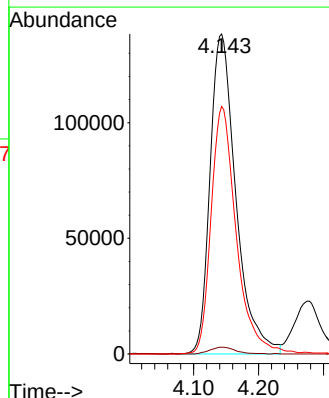
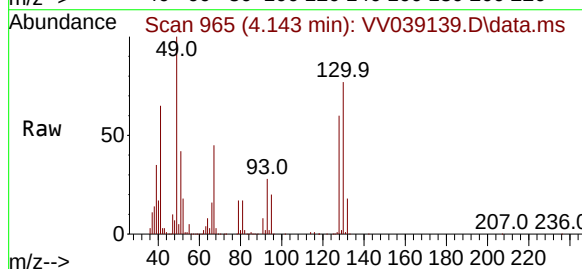
Tgt Ion: 49 Resp: 382640

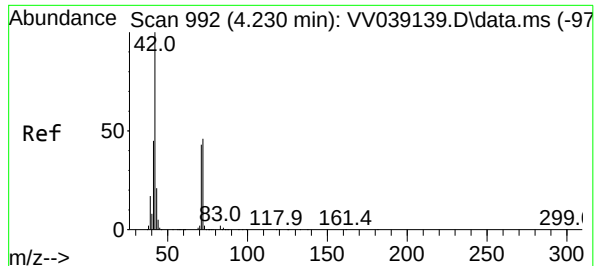
Ion Ratio Lower Upper

49 100

129 2.1 0.0 4.2

130 75.2 60.2 90.2





#29

Tetrahydrofuran

Concen: 254.258 ug/l

RT: 4.230 min Scan# 992

Delta R.T. 0.000 min

Lab File: VV039139.D

Acq: 22 Sep 2025 13:26

Instrument :

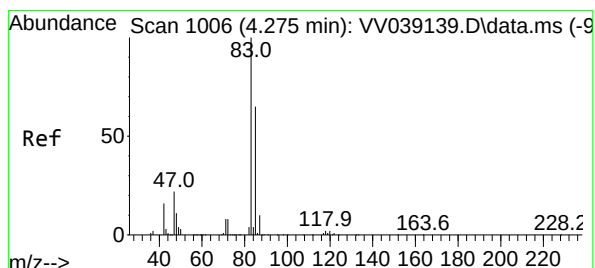
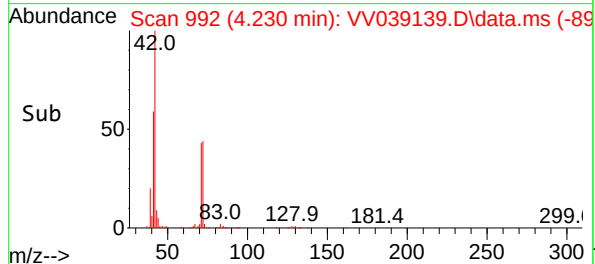
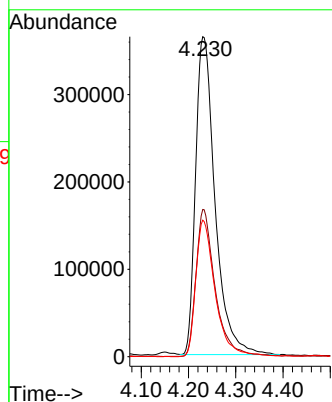
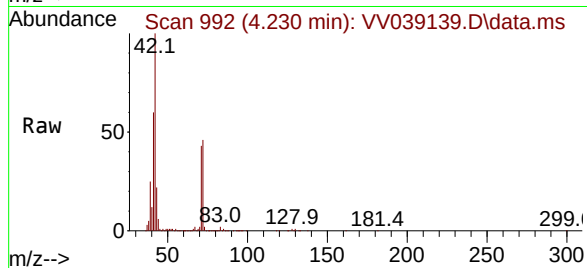
MSVOA_V

ClientSampleId :

VSTDICCC050

Tgt Ion: 42 Resp: 1039169

Ion	Ratio	Lower	Upper
42	100		
72	45.4	36.3	54.5
71	42.9	34.3	51.5



#30

Chloroform

Concen: 45.268 ug/l

RT: 4.275 min Scan# 1006

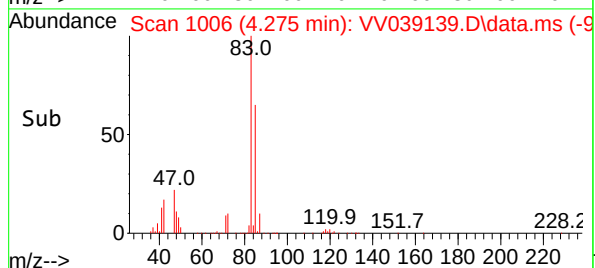
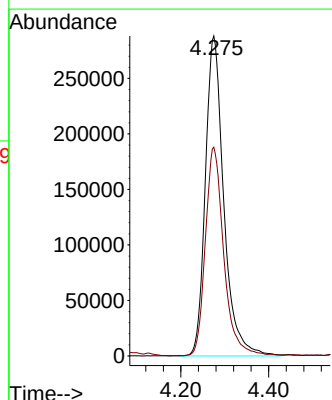
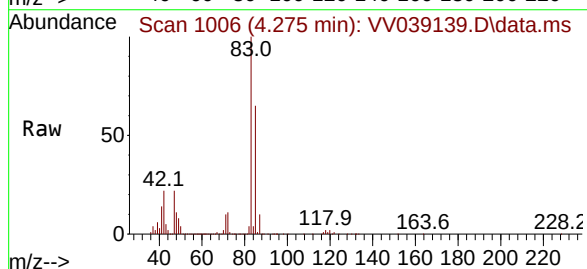
Delta R.T. 0.000 min

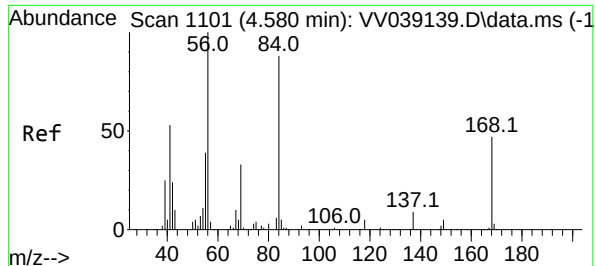
Lab File: VV039139.D

Acq: 22 Sep 2025 13:26

Tgt Ion: 83 Resp: 839217

Ion	Ratio	Lower	Upper
83	100		
85	65.1	52.1	78.1





#31

Cyclohexane

Concen: 48.232 ug/l

RT: 4.580 min Scan# 1101

Delta R.T. 0.000 min

Lab File: VV039139.D

Acq: 22 Sep 2025 13:26

Instrument :

MSVOA_V

ClientSampleId :

VSTDICCC050

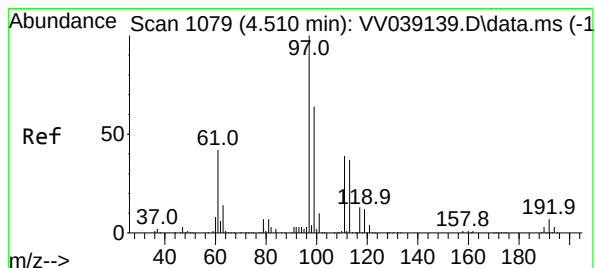
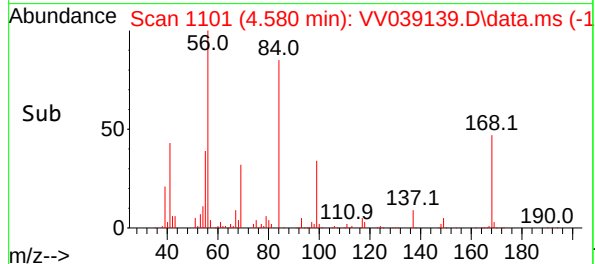
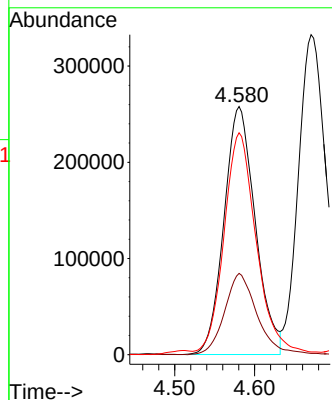
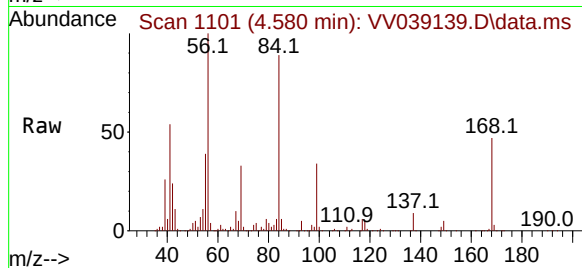
Tgt Ion: 56 Resp: 701482

Ion Ratio Lower Upper

56 100

69 32.7 26.2 39.2

84 87.9 70.3 105.5



#32

1,1,1-Trichloroethane

Concen: 45.547 ug/l

RT: 4.510 min Scan# 1079

Delta R.T. 0.000 min

Lab File: VV039139.D

Acq: 22 Sep 2025 13:26

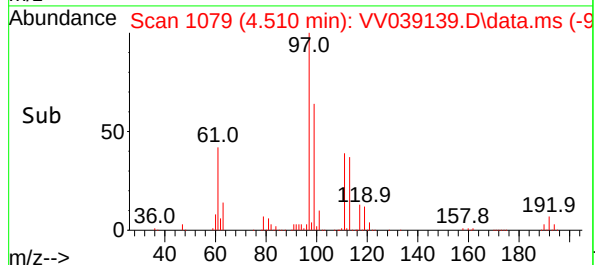
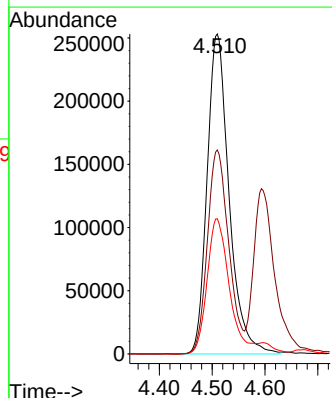
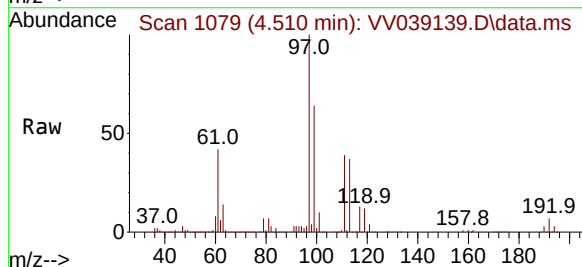
Tgt Ion: 97 Resp: 731030

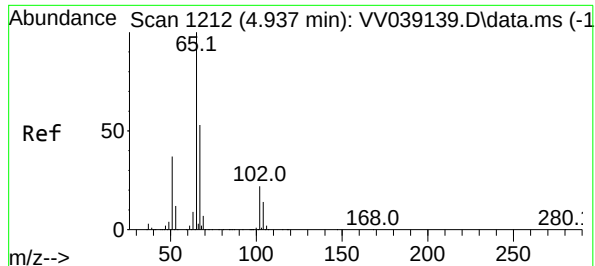
Ion Ratio Lower Upper

97 100

99 62.0 49.6 74.4

61 43.1 34.5 51.7





#33

1,2-Dichloroethane-d4

Concen: 44.618 ug/l

RT: 4.937 min Scan# 1212

Delta R.T. 0.000 min

Lab File: VV039139.D

Acq: 22 Sep 2025 13:26

Instrument :

MSVOA_V

ClientSampleId :

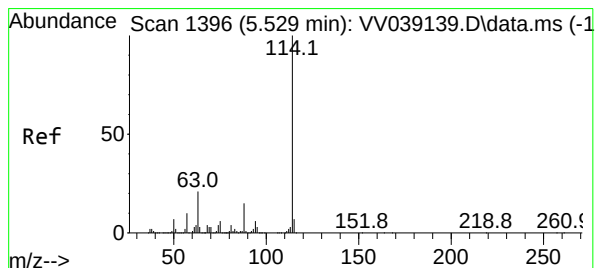
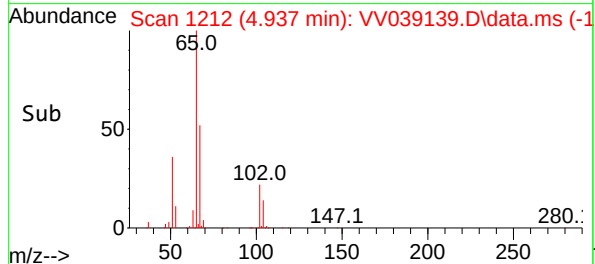
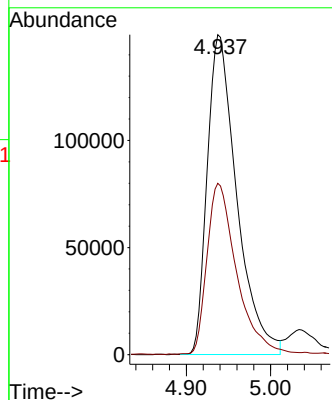
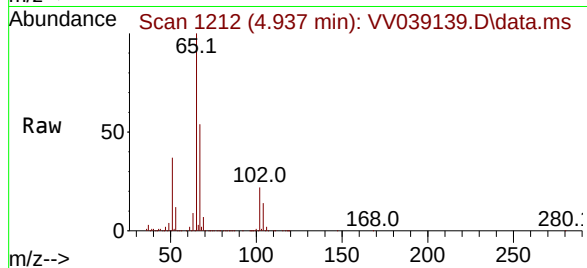
VSTDICCC050

Tgt Ion: 65 Resp: 363821

Ion Ratio Lower Upper

65 100

67 53.5 0.0 107.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.529 min Scan# 1396

Delta R.T. -0.000 min

Lab File: VV039139.D

Acq: 22 Sep 2025 13:26

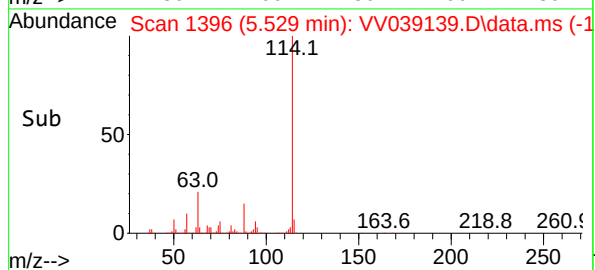
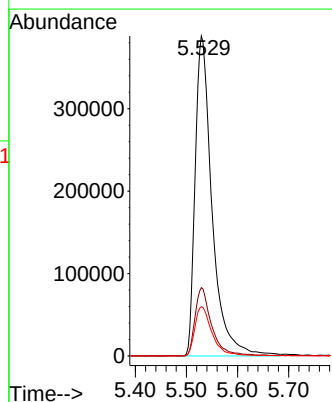
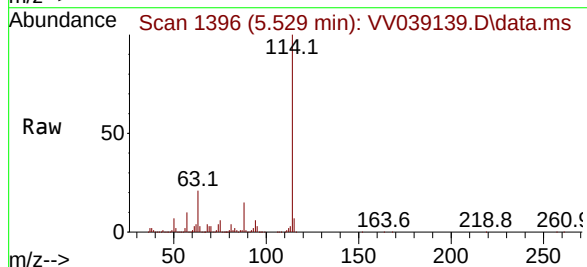
Tgt Ion: 114 Resp: 894173

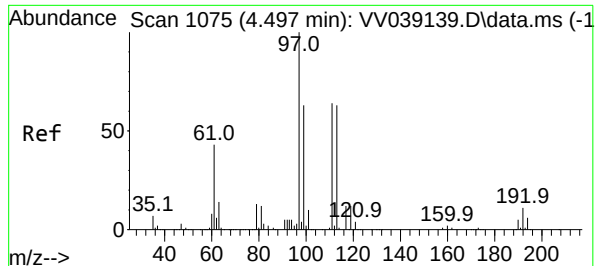
Ion Ratio Lower Upper

114 100

63 21.3 0.0 42.6

88 15.4 0.0 30.8





#35

Dibromofluoromethane

Concen: 46.935 ug/l

RT: 4.497 min Scan# 1075

Delta R.T. 0.000 min

Lab File: VV039139.D

Acq: 22 Sep 2025 13:26

Instrument :

MSVOA_V

ClientSampleId :

VSTDICCC050

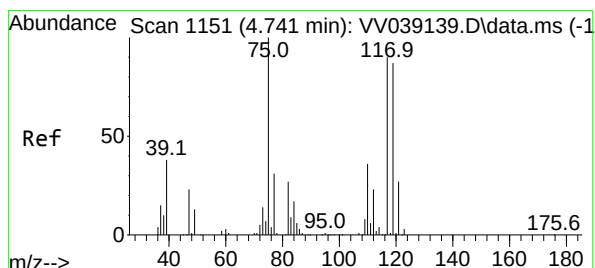
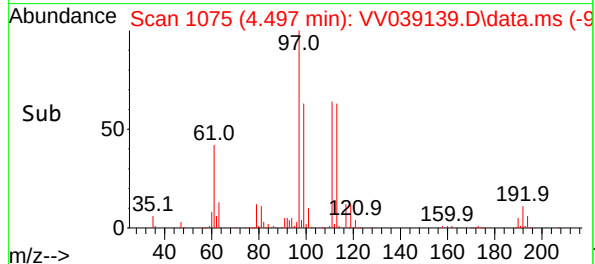
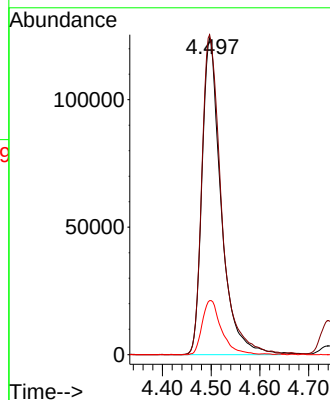
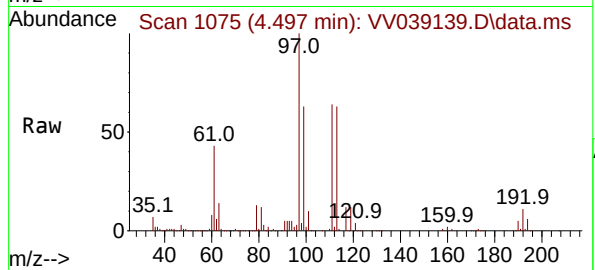
Tgt Ion:113 Resp: 337386

Ion Ratio Lower Upper

113 100

111 103.0 82.4 123.6

192 17.3 13.8 20.8



#36

1,1-Dichloropropene

Concen: 50.680 ug/l

RT: 4.741 min Scan# 1151

Delta R.T. 0.000 min

Lab File: VV039139.D

Acq: 22 Sep 2025 13:26

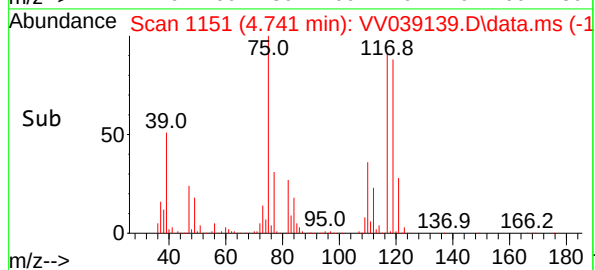
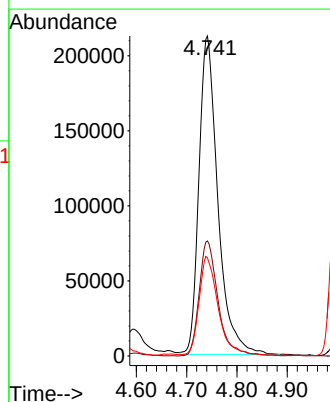
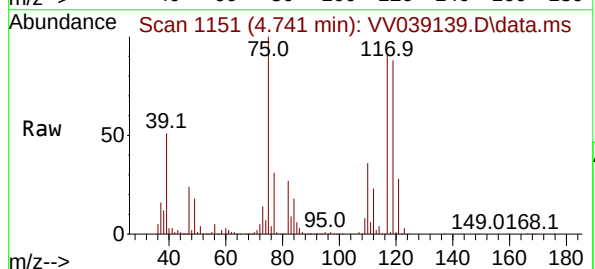
Tgt Ion: 75 Resp: 554798

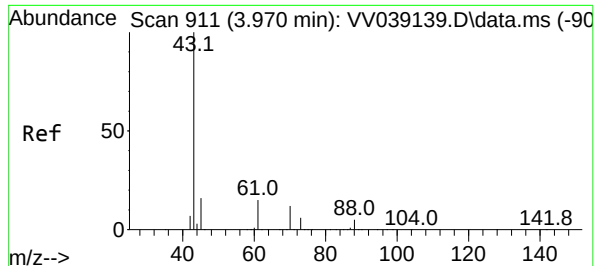
Ion Ratio Lower Upper

75 100

110 36.1 18.1 54.1

77 31.0 24.8 37.2





#37

Ethyl Acetate

Concen: 47.519 ug/l

RT: 3.970 min Scan# 911

Delta R.T. -0.000 min

Lab File: VV039139.D

Acq: 22 Sep 2025 13:26

Instrument :

MSVOA_V

ClientSampleId :

VSTDICCC050

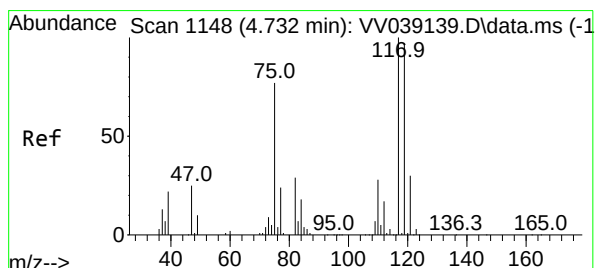
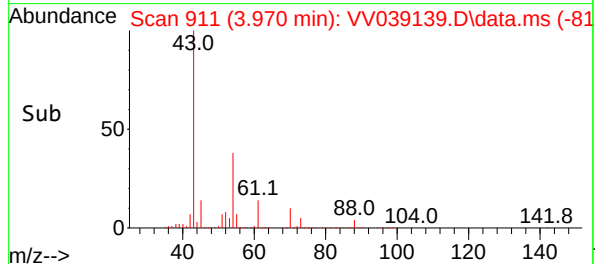
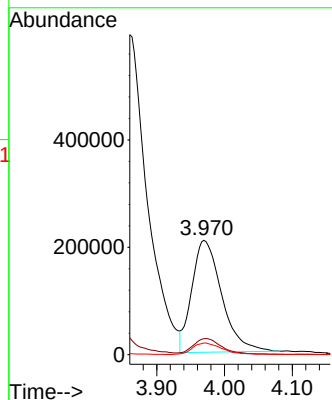
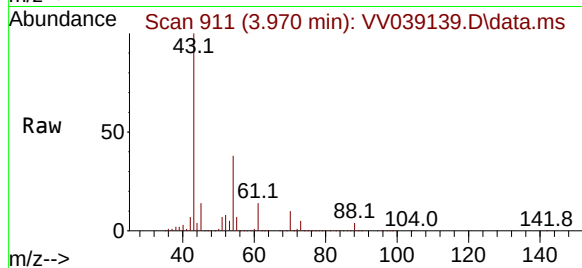
Tgt Ion: 43 Resp: 638131

Ion Ratio Lower Upper

43 100

61 12.9 10.3 15.5

70 10.0 8.0 12.0



#38

Carbon Tetrachloride

Concen: 47.666 ug/l

RT: 4.732 min Scan# 1148

Delta R.T. -0.000 min

Lab File: VV039139.D

Acq: 22 Sep 2025 13:26

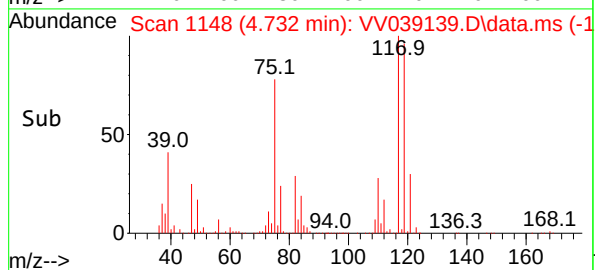
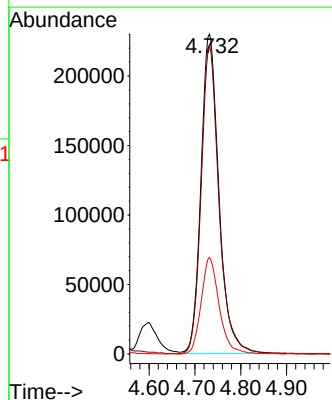
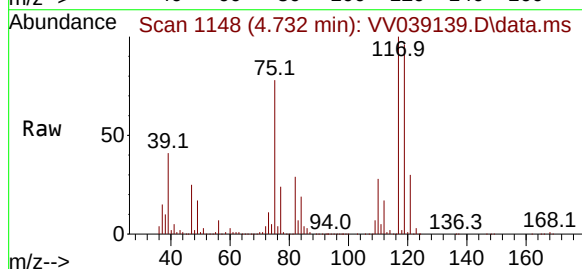
Tgt Ion: 117 Resp: 628516

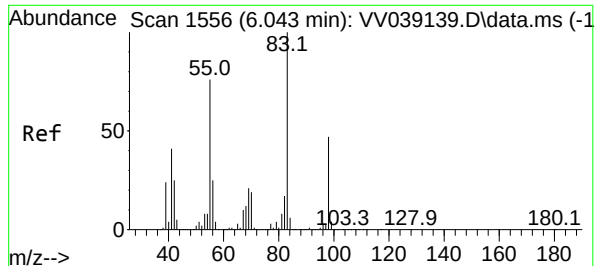
Ion Ratio Lower Upper

117 100

119 96.5 77.2 115.8

121 30.2 24.2 36.2





#39

Methylcyclohexane

Concen: 56.095 ug/l

RT: 6.043 min Scan# 1

Delta R.T. 0.000 min

Lab File: VV039139.D

Acq: 22 Sep 2025 13:26

Instrument :

MSVOA_V

ClientSampleId :

VSTDICCC050

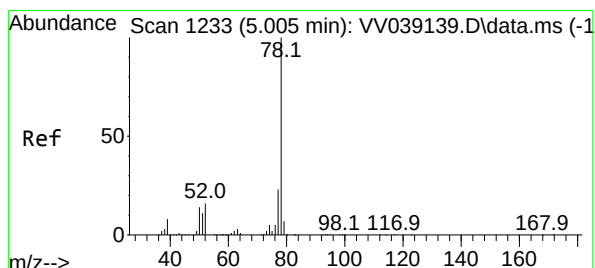
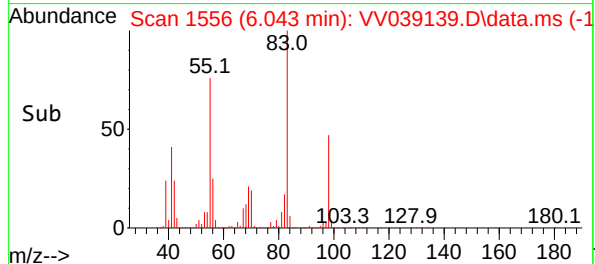
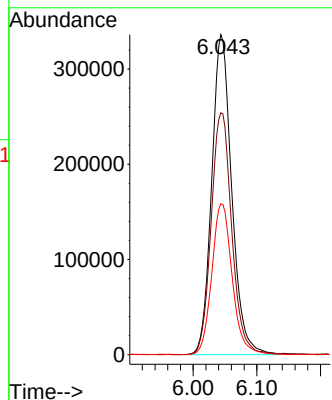
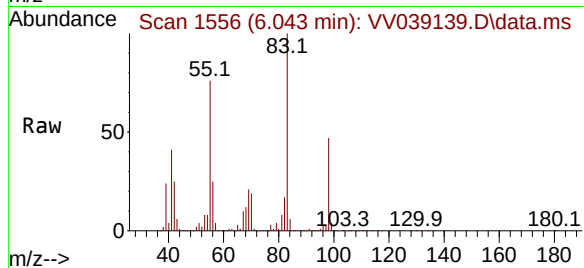
Tgt Ion: 83 Resp: 736231

Ion Ratio Lower Upper

83 100

55 75.6 60.5 90.7

98 47.2 37.8 56.6



#40

Benzene

Concen: 50.276 ug/l

RT: 5.005 min Scan# 1233

Delta R.T. -0.000 min

Lab File: VV039139.D

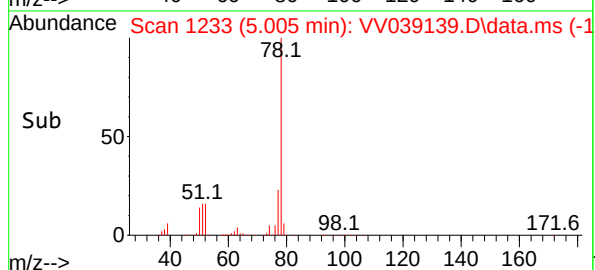
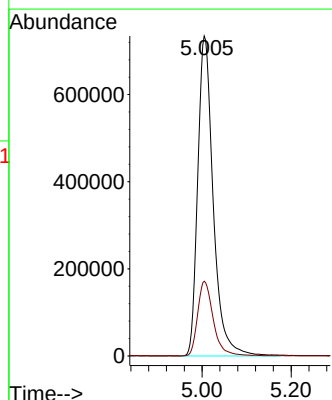
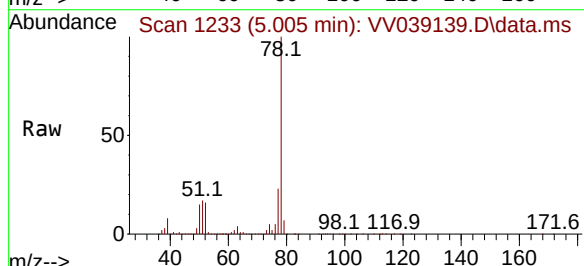
Acq: 22 Sep 2025 13:26

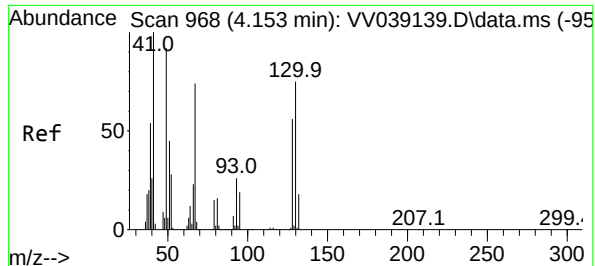
Tgt Ion: 78 Resp: 1779301

Ion Ratio Lower Upper

78 100

77 23.4 18.7 28.1





#41

Methacrylonitrile

Concen: 49.541 ug/l

RT: 4.153 min Scan# 968

Delta R.T. -0.000 min

Lab File: VV039139.D

Acq: 22 Sep 2025 13:26

Instrument :

MSVOA_V

ClientSampleId :

VSTDICCC050

Tgt Ion: 41 Resp: 295316

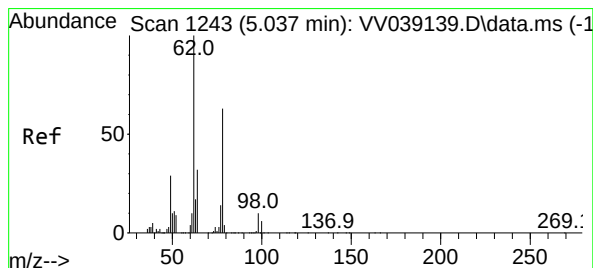
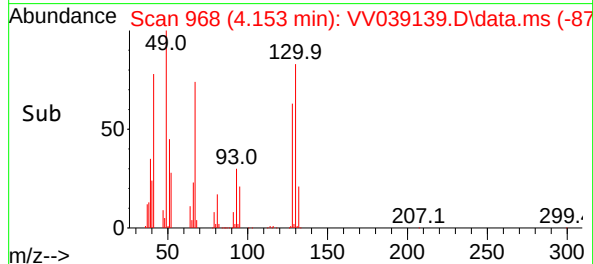
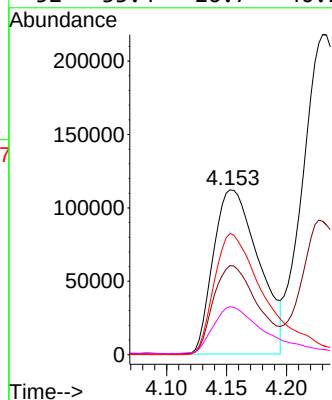
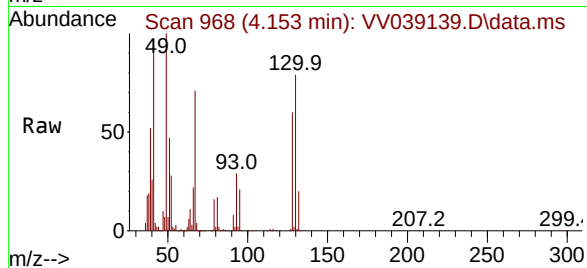
Ion Ratio Lower Upper

41 100

39 52.7 42.2 63.2

67 84.9 67.9 101.9

52 33.4 26.7 40.1



#42

1,2-Dichloroethane

Concen: 48.000 ug/l

RT: 5.037 min Scan# 1243

Delta R.T. 0.000 min

Lab File: VV039139.D

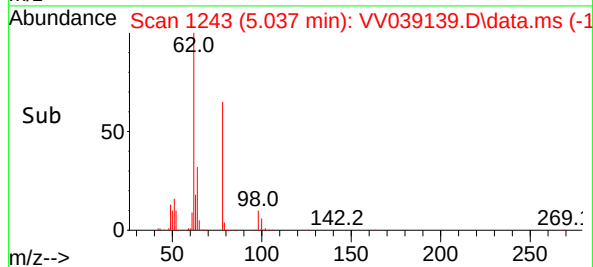
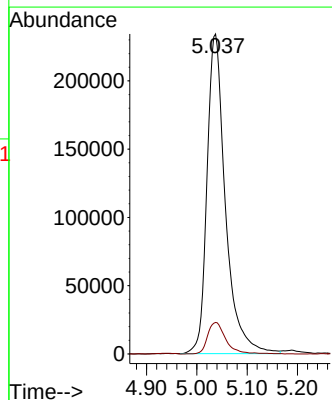
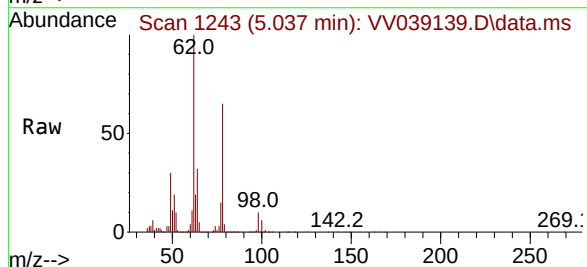
Acq: 22 Sep 2025 13:26

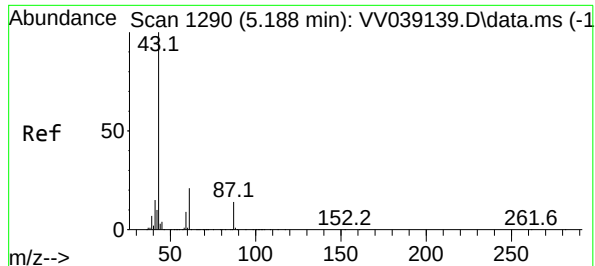
Tgt Ion: 62 Resp: 595216

Ion Ratio Lower Upper

62 100

98 9.6 0.0 19.2





#43

Isopropyl Acetate

Concen: 51.691 ug/l

RT: 5.188 min Scan# 1290

Delta R.T. 0.000 min

Lab File: VV039139.D

Acq: 22 Sep 2025 13:26

Instrument :

MSVOA_V

ClientSampleId :

VSTDICCC050

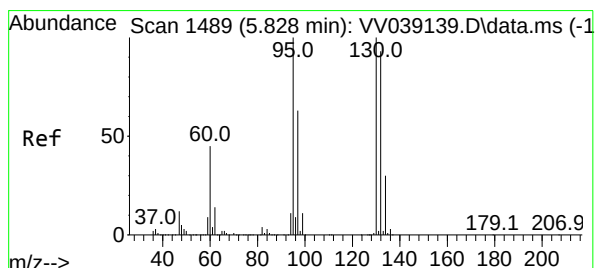
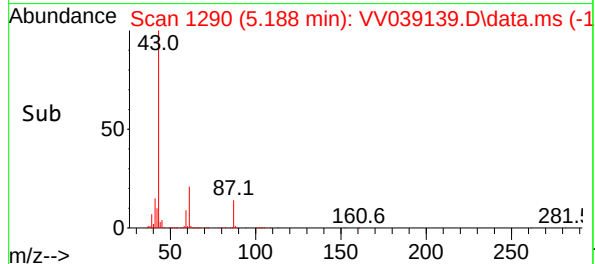
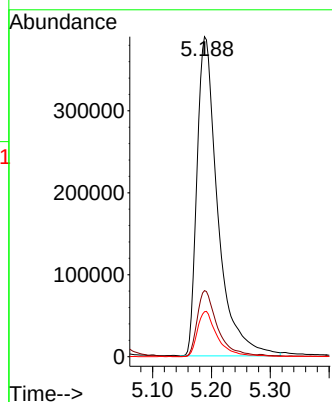
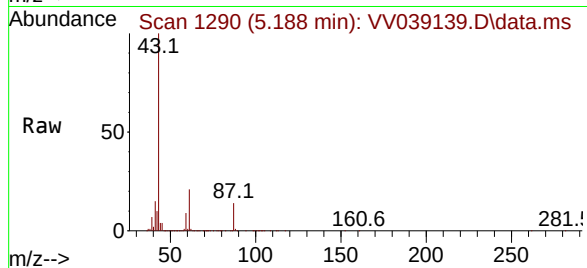
Tgt Ion: 43 Resp: 956288

Ion Ratio Lower Upper

43 100

61 19.9 15.9 23.9

87 13.8 11.0 16.6



#44

Trichloroethene

Concen: 50.715 ug/l

RT: 5.828 min Scan# 1489

Delta R.T. 0.000 min

Lab File: VV039139.D

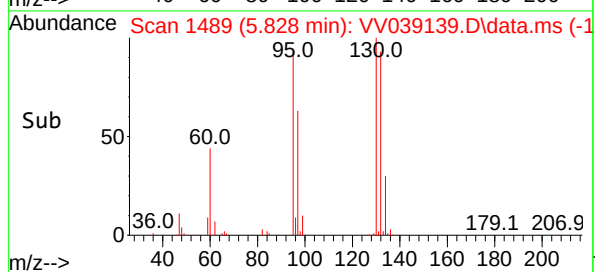
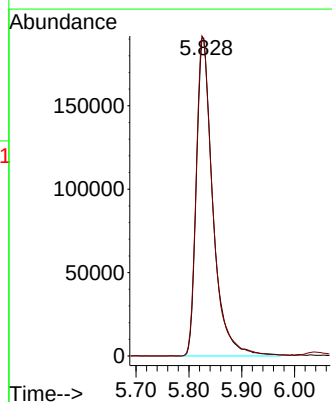
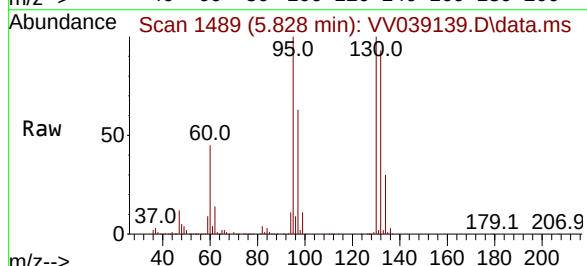
Acq: 22 Sep 2025 13:26

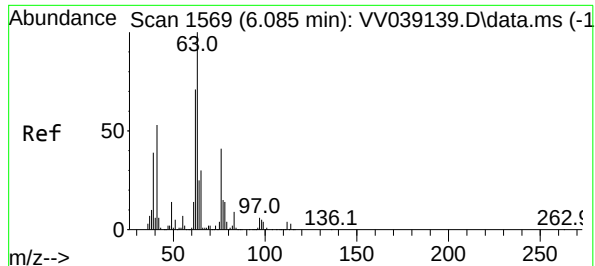
Tgt Ion:130 Resp: 414171

Ion Ratio Lower Upper

130 100

95 99.6 0.0 199.2





#45

1,2-Dichloropropane

Concen: 51.014 ug/l

RT: 6.085 min Scan# 1569

Delta R.T. 0.000 min

Lab File: VV039139.D

Acq: 22 Sep 2025 13:26

Instrument :

MSVOA_V

ClientSampleId :

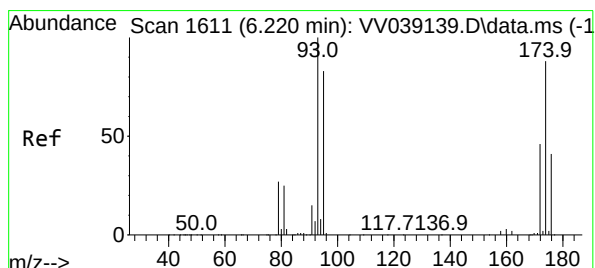
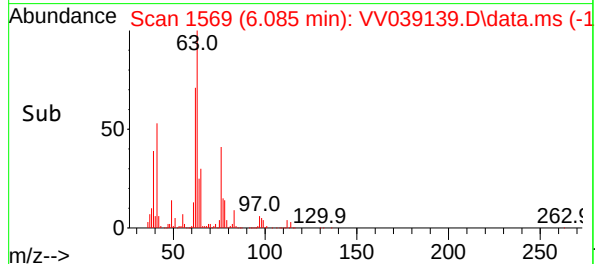
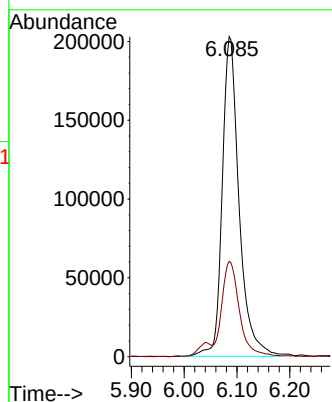
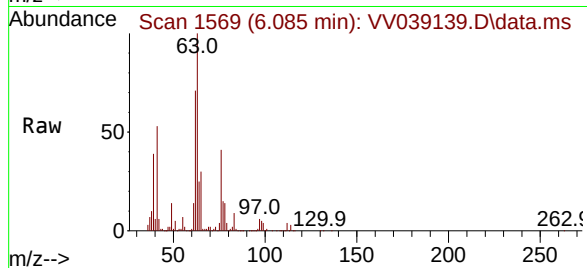
VSTDICCC050

Tgt Ion: 63 Resp: 448750

Ion Ratio Lower Upper

63 100

65 29.6 23.7 35.5



#46

Dibromomethane

Concen: 48.876 ug/l

RT: 6.220 min Scan# 1611

Delta R.T. 0.000 min

Lab File: VV039139.D

Acq: 22 Sep 2025 13:26

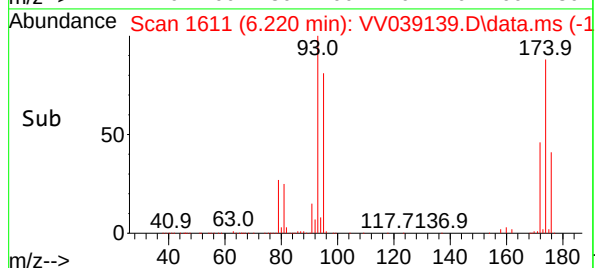
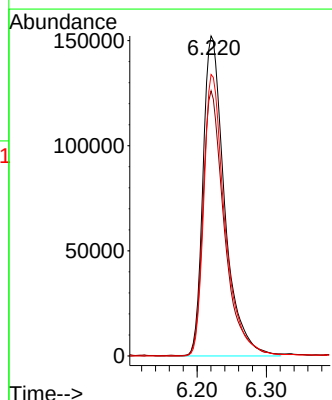
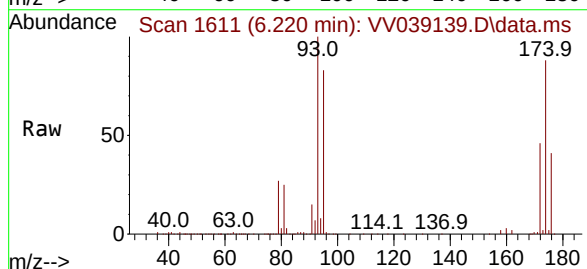
Tgt Ion: 93 Resp: 329073

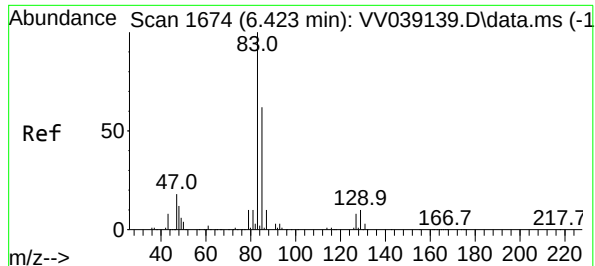
Ion Ratio Lower Upper

93 100

95 81.9 65.5 98.3

174 86.2 69.0 103.4





#47

Bromodichloromethane

Concen: 48.398 ug/l

RT: 6.423 min Scan# 1

Delta R.T. 0.000 min

Lab File: VV039139.D

Acq: 22 Sep 2025 13:26

Instrument :

MSVOA_V

ClientSampleId :

VSTDICCC050

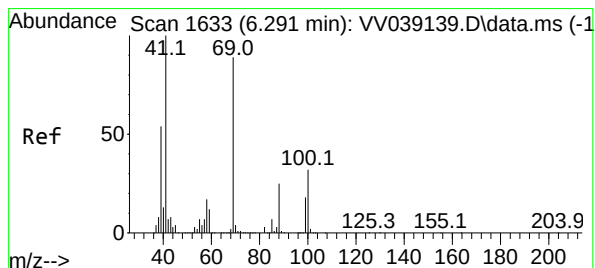
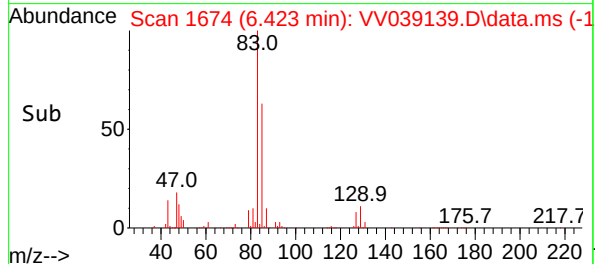
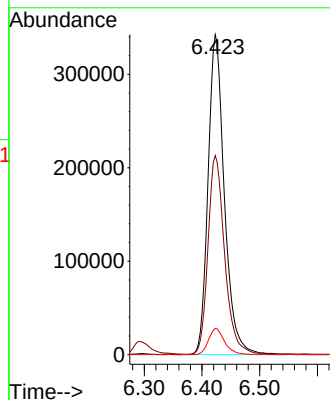
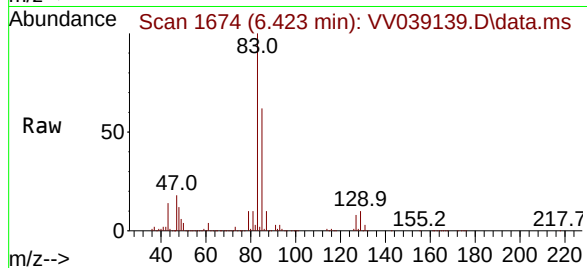
Tgt Ion: 83 Resp: 673646

Ion Ratio Lower Upper

83 100

85 62.1 49.7 74.5

127 8.2 6.6 9.8



#48

Methyl methacrylate

Concen: 53.193 ug/l

RT: 6.291 min Scan# 1633

Delta R.T. -0.000 min

Lab File: VV039139.D

Acq: 22 Sep 2025 13:26

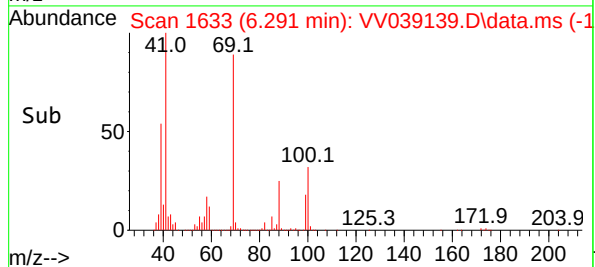
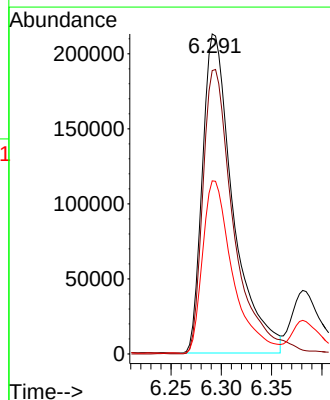
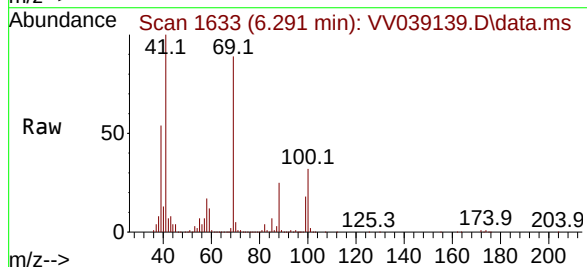
Tgt Ion: 41 Resp: 450230

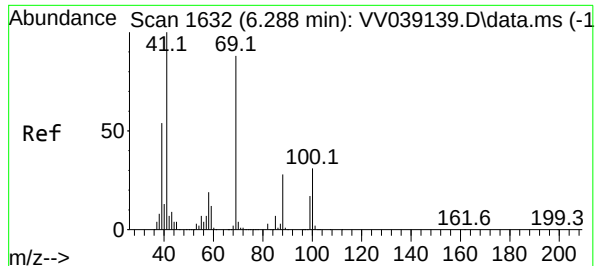
Ion Ratio Lower Upper

41 100

69 90.5 72.4 108.6

39 53.1 42.5 63.7





#49

1,4-Dioxane

Concen: 1006.069 ug/l

RT: 6.288 min Scan# 1

Delta R.T. 0.000 min

Lab File: VV039139.D

Acq: 22 Sep 2025 13:26

Instrument :

MSVOA_V

ClientSampleId :

VSTDICCC050

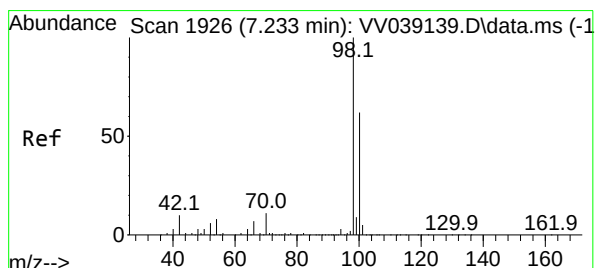
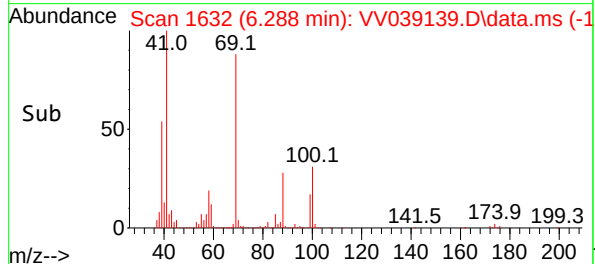
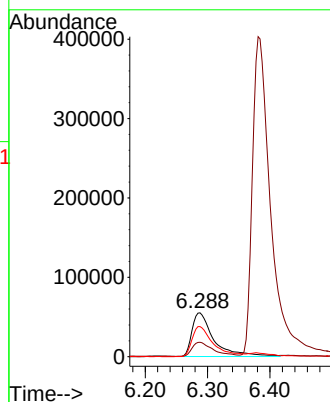
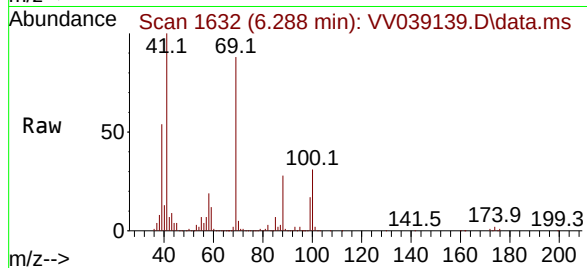
Tgt Ion: 88 Resp: 133834

Ion Ratio Lower Upper

88 100

43 31.4 25.1 37.7

58 67.0 53.6 80.4



#50

Toluene-d8

Concen: 48.130 ug/l

RT: 7.233 min Scan# 1926

Delta R.T. 0.000 min

Lab File: VV039139.D

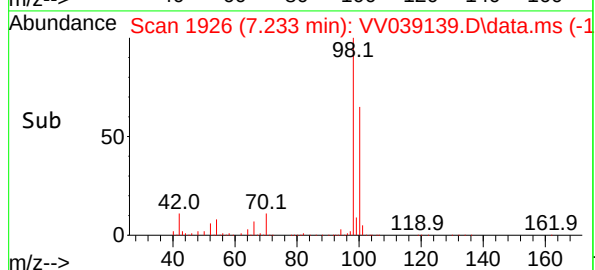
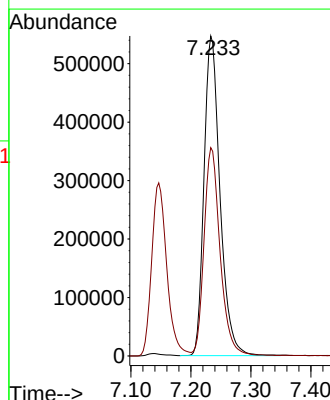
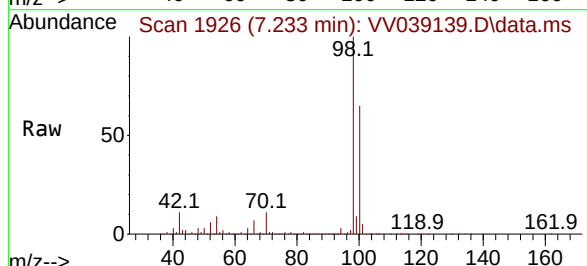
Acq: 22 Sep 2025 13:26

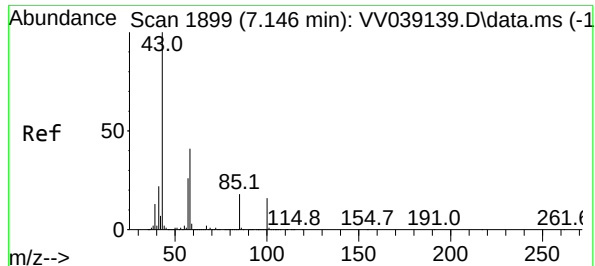
Tgt Ion: 98 Resp: 1016135

Ion Ratio Lower Upper

98 100

100 65.2 52.2 78.2





#51

4-Methyl-2-Pentanone

Concen: 276.753 ug/l

RT: 7.146 min Scan# 1899

Delta R.T. 0.000 min

Lab File: VV039139.D

Acq: 22 Sep 2025 13:26

Instrument :

MSVOA_V

ClientSampleId :

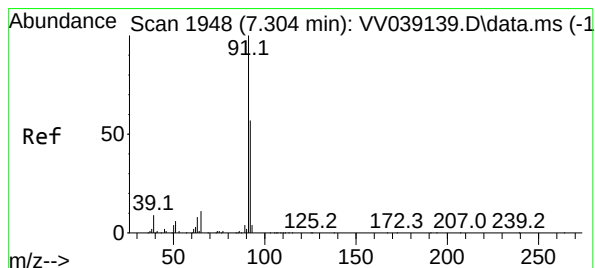
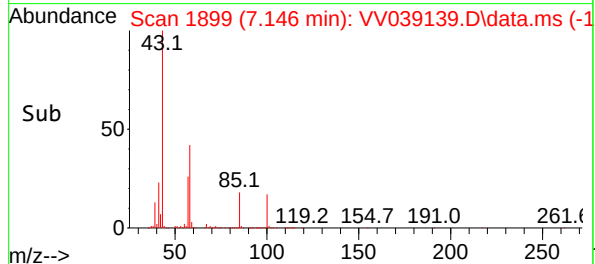
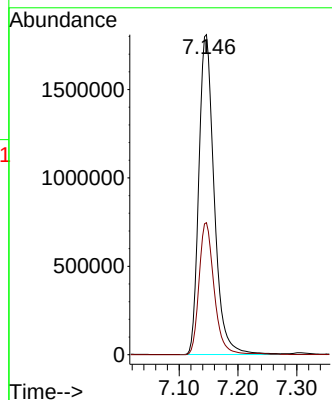
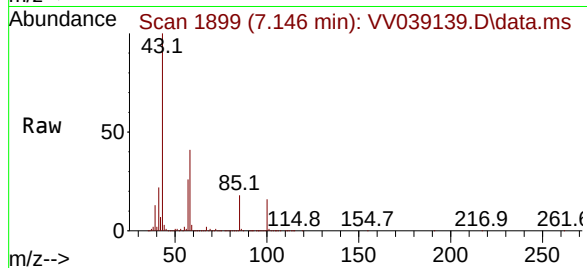
VSTDICCC050

Tgt Ion: 43 Resp: 3273840

Ion Ratio Lower Upper

43 100

58 40.4 32.3 48.5



#52

Toluene

Concen: 53.574 ug/l

RT: 7.304 min Scan# 1948

Delta R.T. -0.000 min

Lab File: VV039139.D

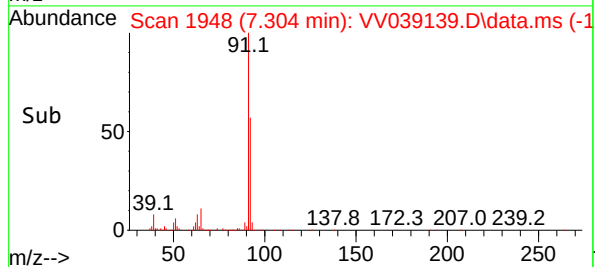
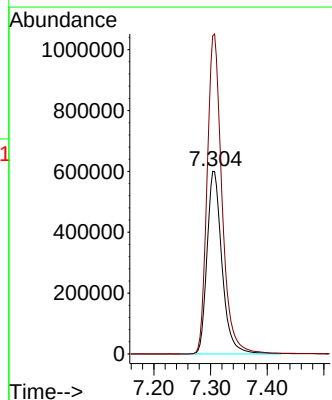
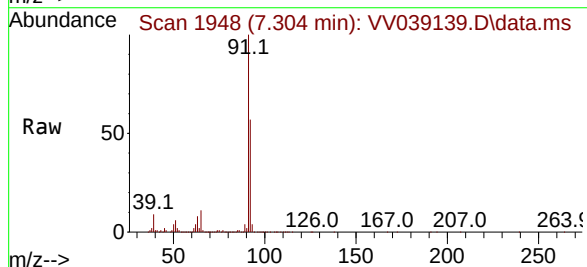
Acq: 22 Sep 2025 13:26

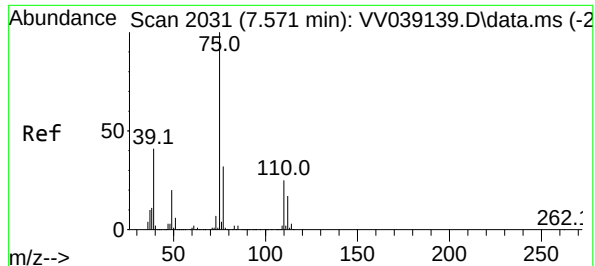
Tgt Ion: 92 Resp: 1099325

Ion Ratio Lower Upper

92 100

91 174.0 139.2 208.8





#53

t-1,3-Dichloropropene

Concen: 53.666 ug/l

RT: 7.571 min Scan# 2031

Delta R.T. -0.000 min

Lab File: VV039139.D

Acq: 22 Sep 2025 13:26

Instrument :

MSVOA_V

ClientSampleId :

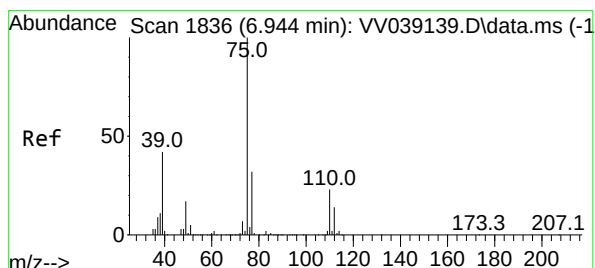
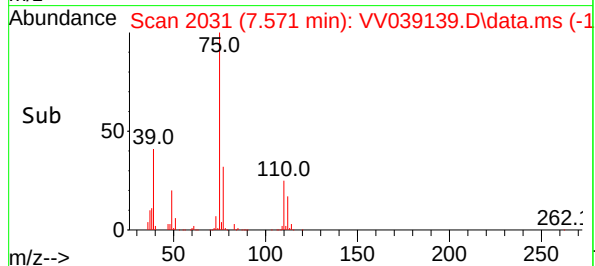
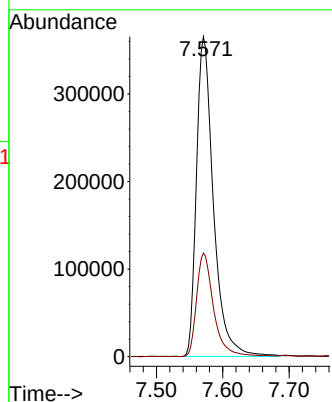
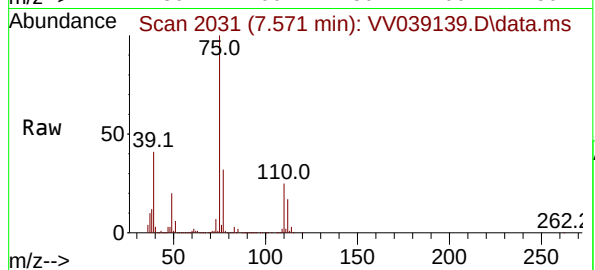
VSTDICCC050

Tgt Ion: 75 Resp: 650976

Ion Ratio Lower Upper

75 100

77 32.4 25.9 38.9



#54

cis-1,3-Dichloropropene

Concen: 54.142 ug/l

RT: 6.944 min Scan# 1836

Delta R.T. -0.000 min

Lab File: VV039139.D

Acq: 22 Sep 2025 13:26

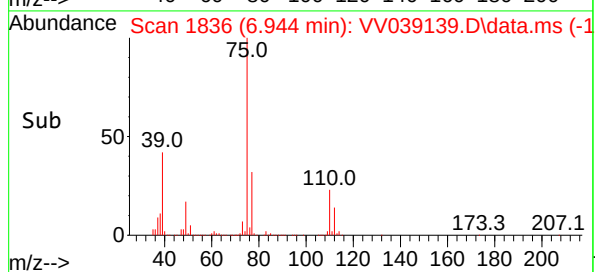
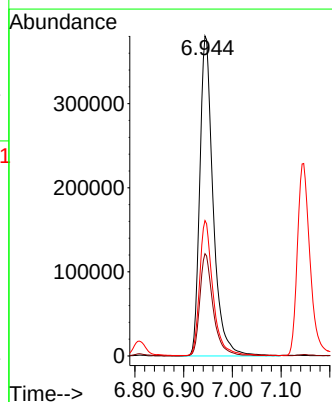
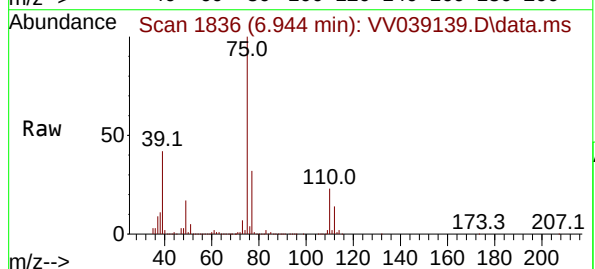
Tgt Ion: 75 Resp: 725015

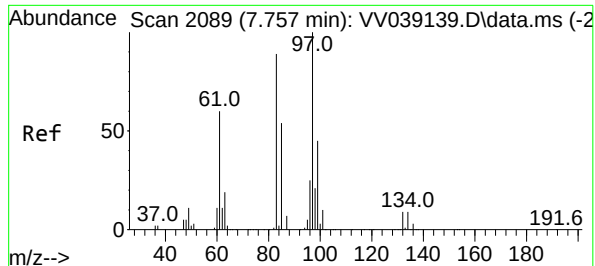
Ion Ratio Lower Upper

75 100

77 31.9 25.5 38.3

39 42.2 33.8 50.6





#55

1,1,2-Trichloroethane

Concen: 48.020 ug/l

RT: 7.757 min Scan# 2089

Delta R.T. 0.000 min

Lab File: VV039139.D

Acq: 22 Sep 2025 13:26

Instrument :

MSVOA_V

ClientSampleId :

VSTDICCC050

Tgt Ion: 97 Resp: 441822

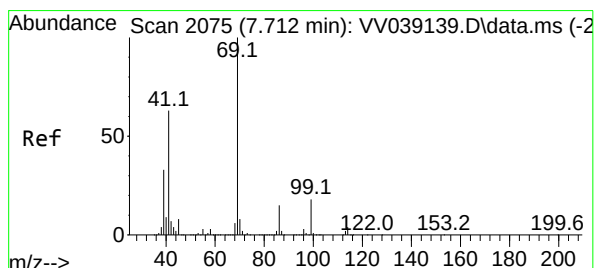
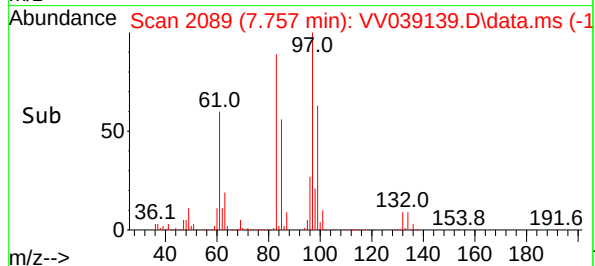
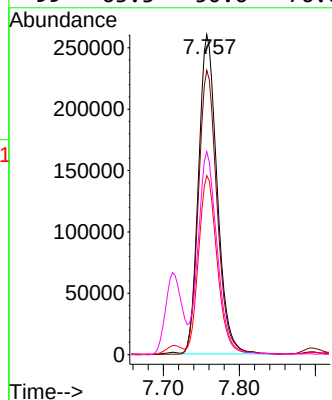
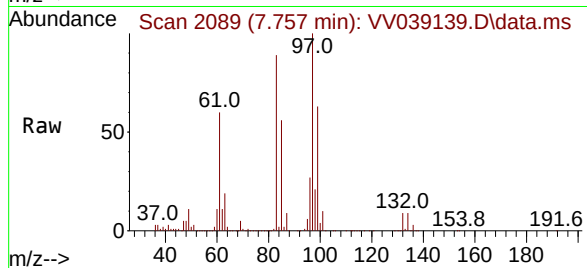
Ion Ratio Lower Upper

97 100

83 88.9 71.1 106.7

85 55.8 44.6 67.0

99 63.3 50.6 76.0



#56

Ethyl methacrylate

Concen: 58.632 ug/l

RT: 7.712 min Scan# 2075

Delta R.T. 0.000 min

Lab File: VV039139.D

Acq: 22 Sep 2025 13:26

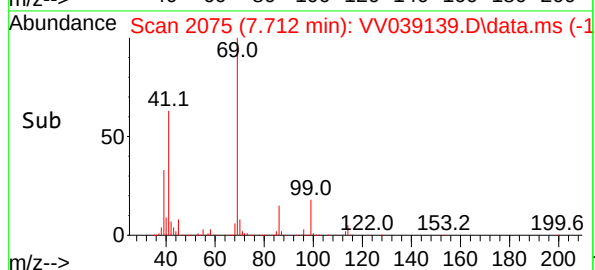
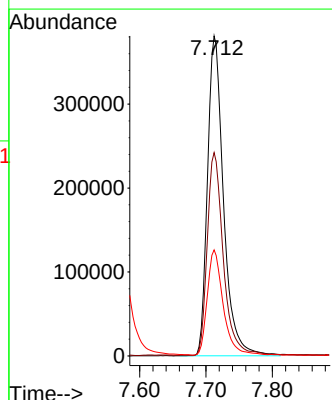
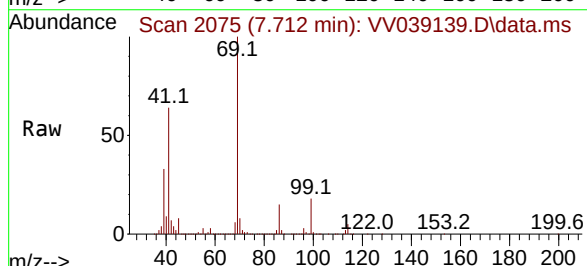
Tgt Ion: 69 Resp: 640636

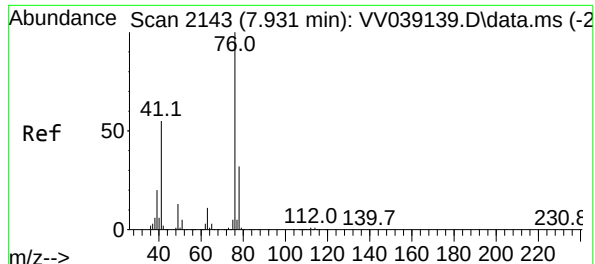
Ion Ratio Lower Upper

69 100

41 63.4 50.7 76.1

39 32.5 26.0 39.0





#57

1,3-Dichloropropane

Concen: 50.505 ug/l

RT: 7.931 min Scan# 2143

Delta R.T. -0.000 min

Lab File: VV039139.D

Acq: 22 Sep 2025 13:26

Instrument :

MSVOA_V

ClientSampleId :

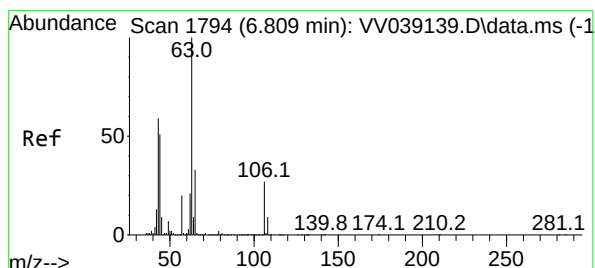
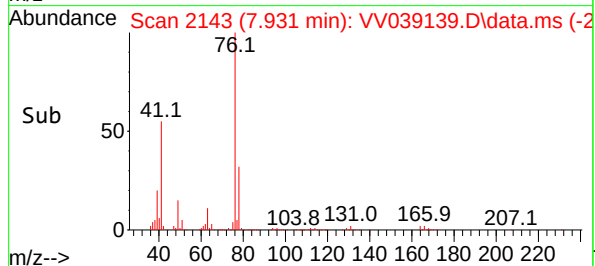
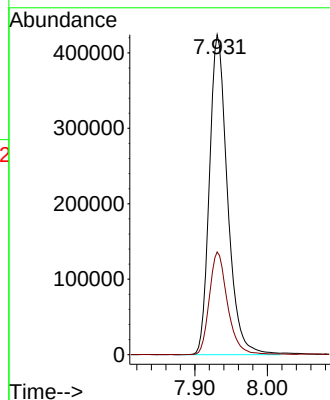
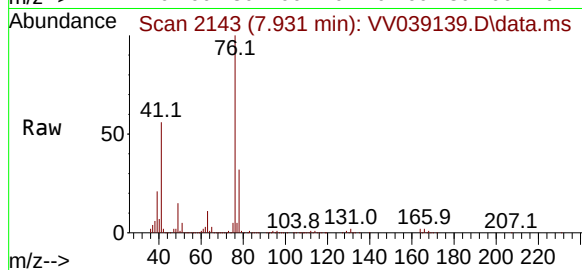
VSTDICCC050

Tgt Ion: 76 Resp: 733341

Ion Ratio Lower Upper

76 100

78 32.6 26.1 39.1



#58

2-Chloroethyl Vinyl ether

Concen: 255.700 ug/l

RT: 6.809 min Scan# 1794

Delta R.T. -0.000 min

Lab File: VV039139.D

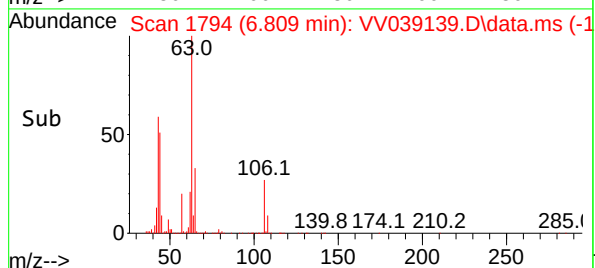
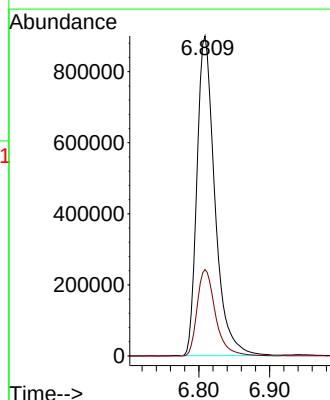
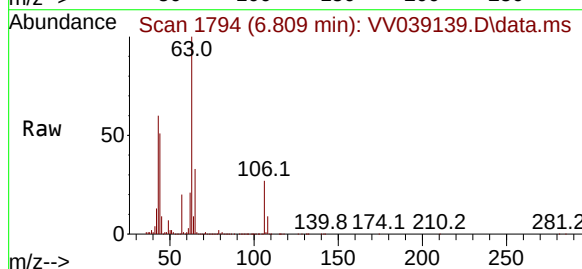
Acq: 22 Sep 2025 13:26

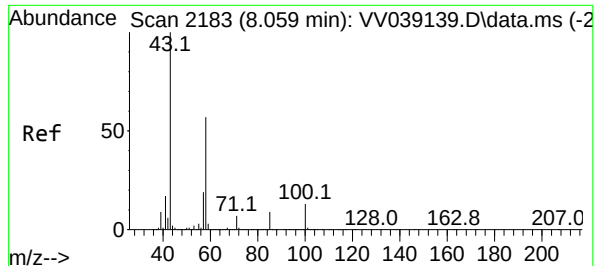
Tgt Ion: 63 Resp: 1579407

Ion Ratio Lower Upper

63 100

106 27.6 22.1 33.1





#59

2-Hexanone

Concen: 255.630 ug/l

RT: 8.059 min Scan# 2183

Delta R.T. 0.000 min

Lab File: VV039139.D

Acq: 22 Sep 2025 13:26

Instrument :

MSVOA_V

ClientSampleId :

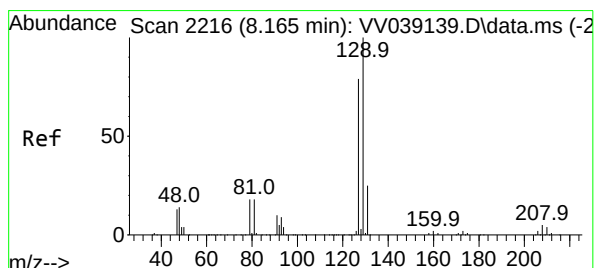
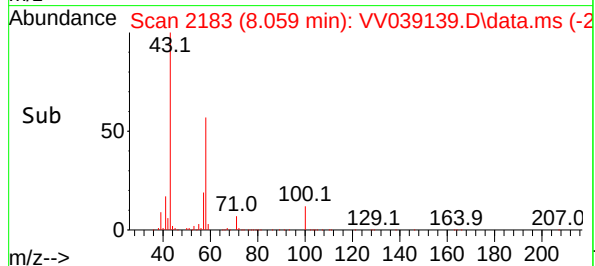
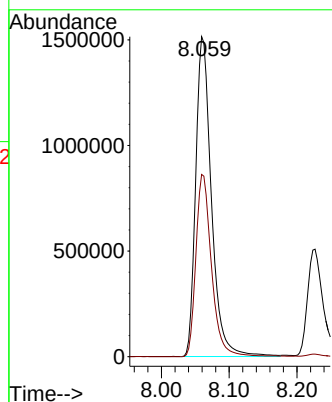
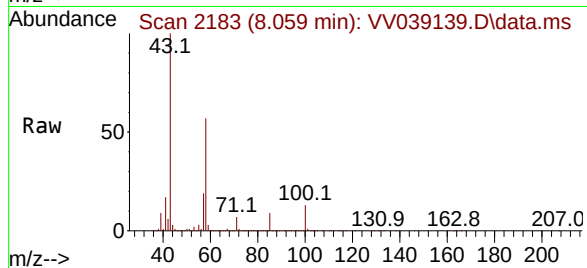
VSTDICCC050

Tgt Ion: 43 Resp: 2441880

Ion Ratio Lower Upper

43 100

58 56.7 28.3 85.0



#60

Dibromochloromethane

Concen: 48.365 ug/l

RT: 8.165 min Scan# 2216

Delta R.T. 0.000 min

Lab File: VV039139.D

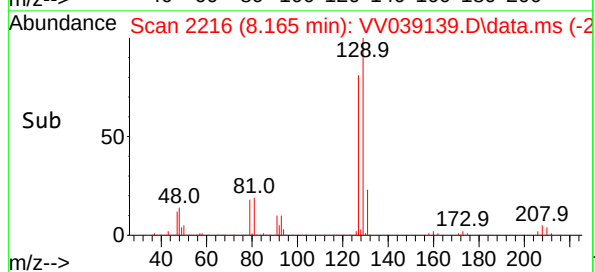
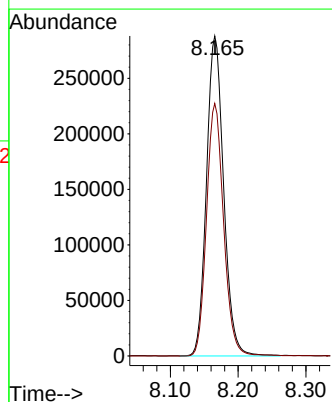
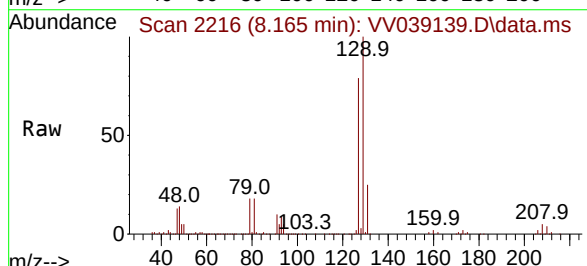
Acq: 22 Sep 2025 13:26

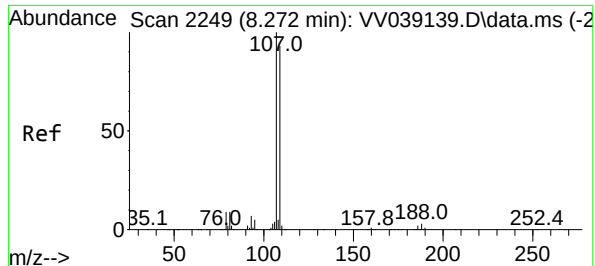
Tgt Ion: 129 Resp: 507043

Ion Ratio Lower Upper

129 100

127 78.6 39.3 117.9





#61

1,2-Dibromoethane

Concen: 50.273 ug/l

RT: 8.272 min Scan# 21

Delta R.T. 0.000 min

Lab File: VV039139.D

Acq: 22 Sep 2025 13:26

Instrument :

MSVOA_V

ClientSampleId :

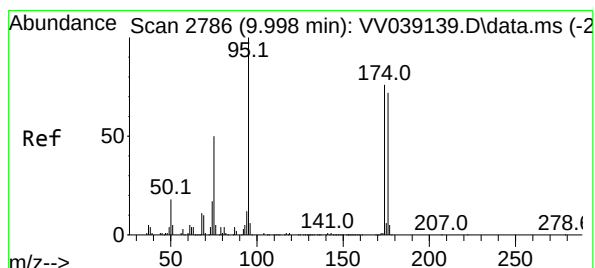
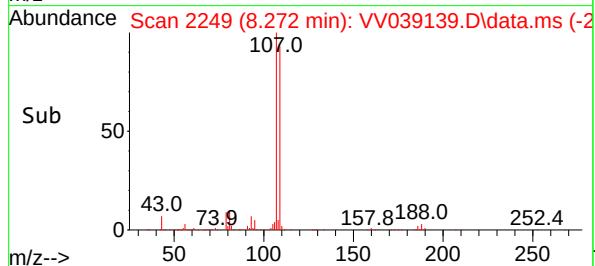
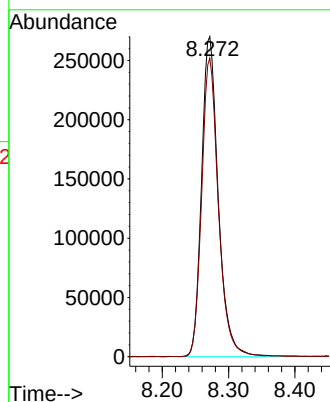
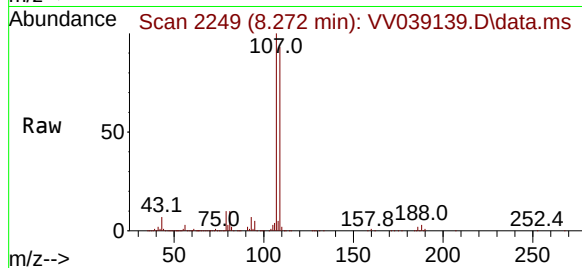
VSTDICCC050

Tgt Ion:107 Resp: 473037

Ion Ratio Lower Upper

107 100

109 93.3 74.6 112.0



#62

4-Bromofluorobenzene

Concen: 52.130 ug/l

RT: 9.998 min Scan# 2786

Delta R.T. 0.000 min

Lab File: VV039139.D

Acq: 22 Sep 2025 13:26

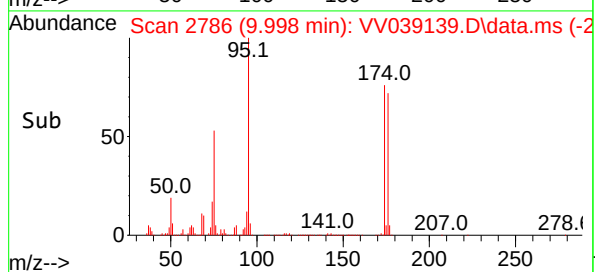
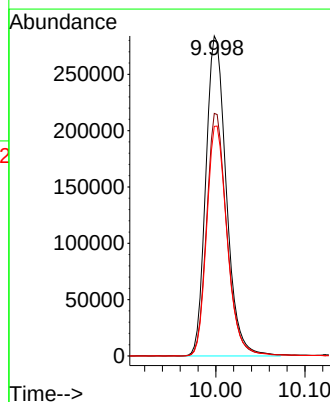
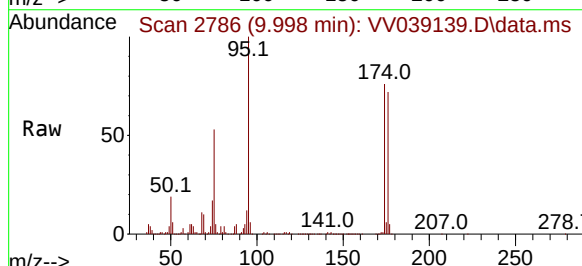
Tgt Ion: 95 Resp: 453081

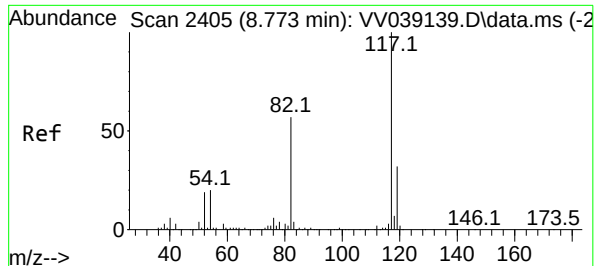
Ion Ratio Lower Upper

95 100

174 75.2 0.0 150.4

176 72.1 0.0 144.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 8.773 min Scan# 2405

Delta R.T. 0.000 min

Lab File: VV039139.D

Acq: 22 Sep 2025 13:26

Instrument :

MSVOA_V

ClientSampleId :

VSTDICCC050

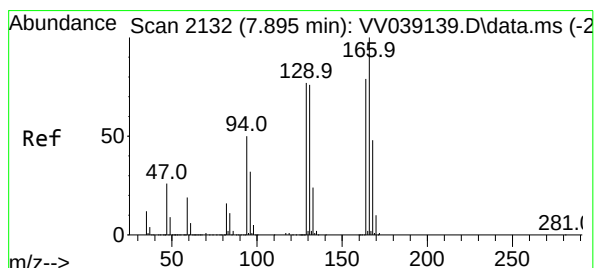
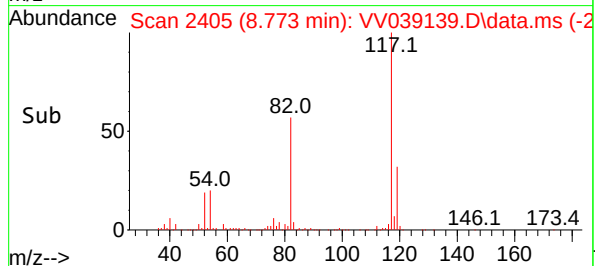
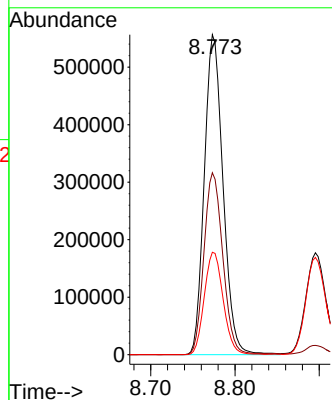
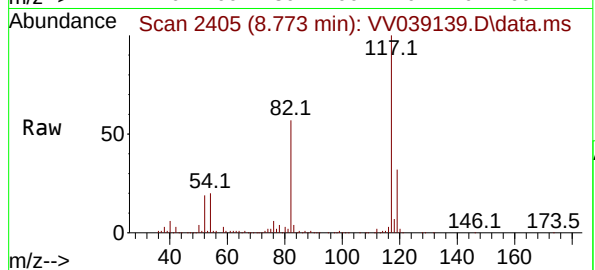
Tgt Ion:117 Resp: 863906

Ion Ratio Lower Upper

117 100

82 56.8 45.4 68.2

119 32.0 25.6 38.4



#64

Tetrachloroethene

Concen: 49.227 ug/l

RT: 7.895 min Scan# 2132

Delta R.T. 0.000 min

Lab File: VV039139.D

Acq: 22 Sep 2025 13:26

Tgt Ion:164 Resp: 356209

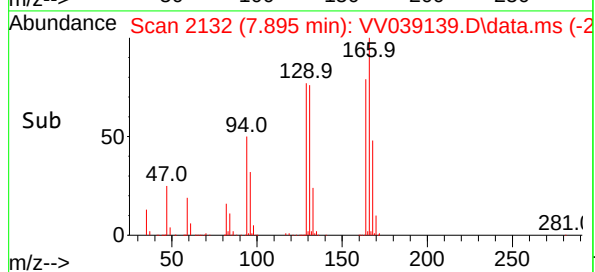
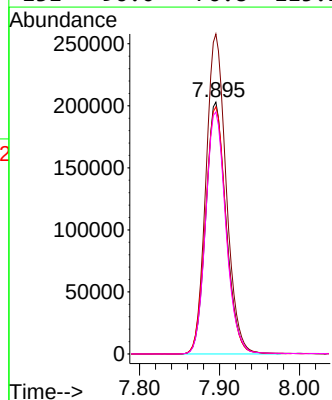
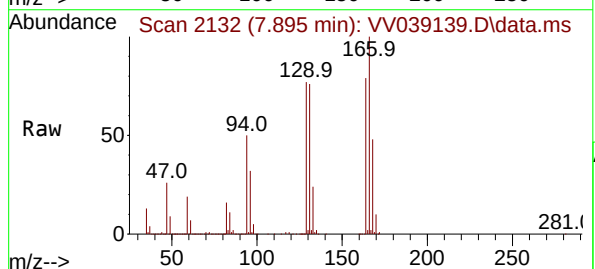
Ion Ratio Lower Upper

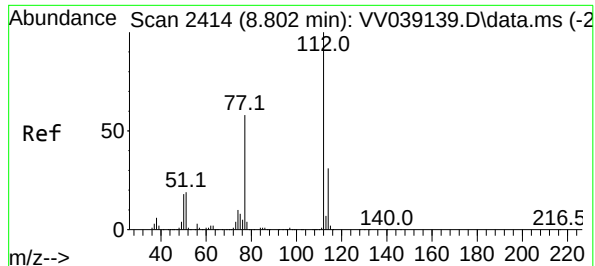
164 100

166 127.0 101.6 152.4

129 98.1 78.5 117.7

131 96.0 76.8 115.2





#65

Chlorobenzene

Concen: 49.651 ug/l

RT: 8.802 min Scan# 2414

Delta R.T. 0.000 min

Lab File: VV039139.D

Acq: 22 Sep 2025 13:26

Instrument :

MSVOA_V

ClientSampleId :

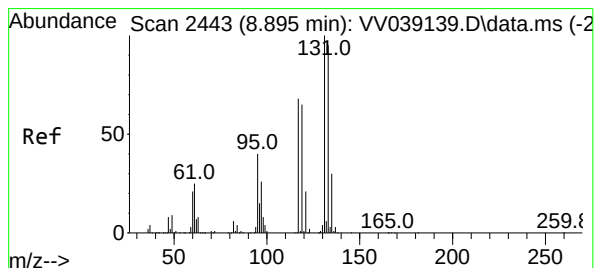
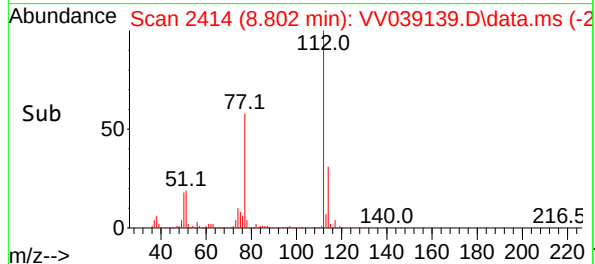
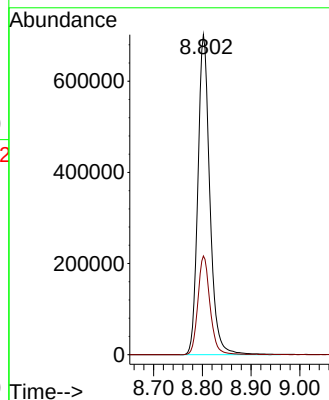
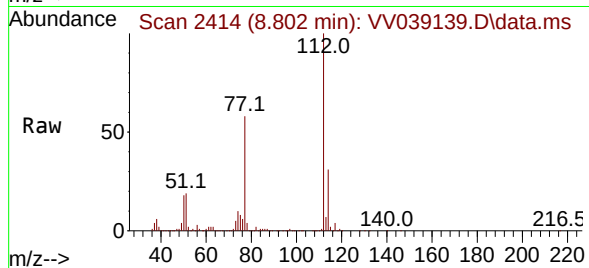
VSTDICCC050

Tgt Ion:112 Resp: 1194769

Ion Ratio Lower Upper

112 100

114 30.8 24.6 37.0



#66

1,1,1,2-Tetrachloroethane

Concen: 48.507 ug/l

RT: 8.895 min Scan# 2443

Delta R.T. 0.000 min

Lab File: VV039139.D

Acq: 22 Sep 2025 13:26

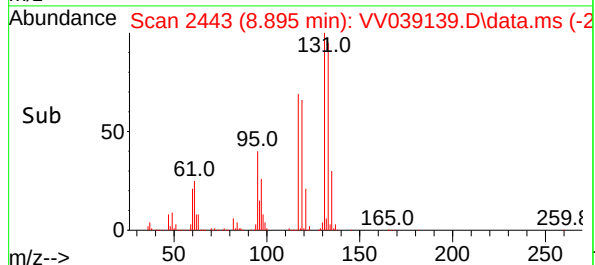
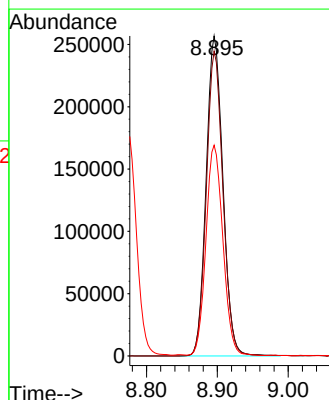
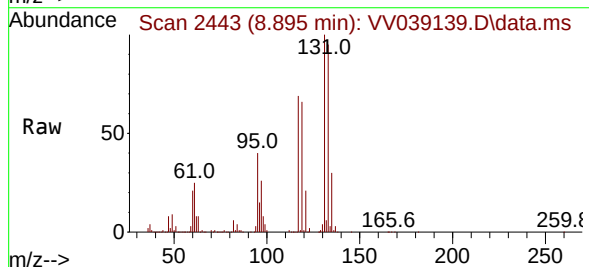
Tgt Ion:131 Resp: 421762

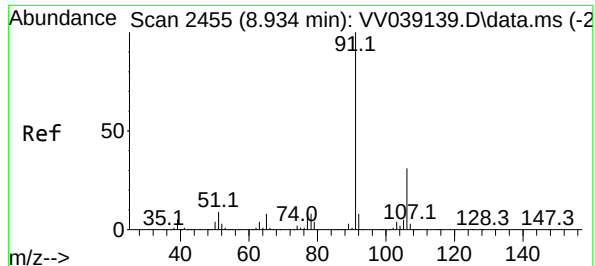
Ion Ratio Lower Upper

131 100

133 94.5 47.3 141.8

119 66.5 33.3 99.8





#67

Ethyl Benzene

Concen: 56.487 ug/l

RT: 8.934 min Scan# 2455

Delta R.T. -0.000 min

Lab File: VV039139.D

Acq: 22 Sep 2025 13:26

Instrument :

MSVOA_V

ClientSampleId :

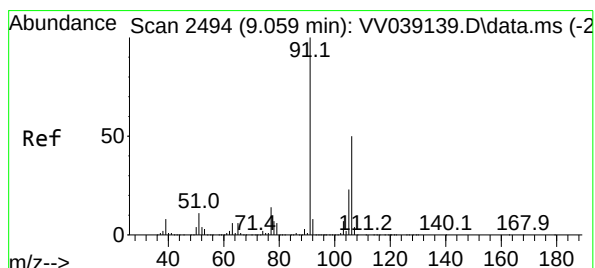
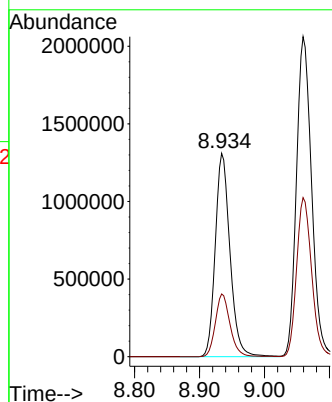
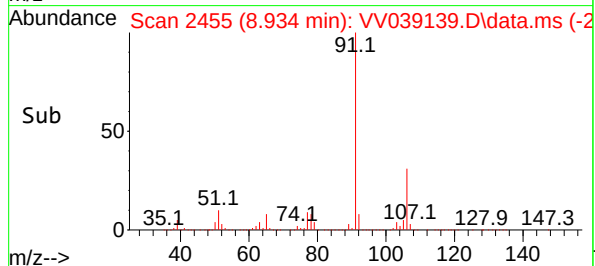
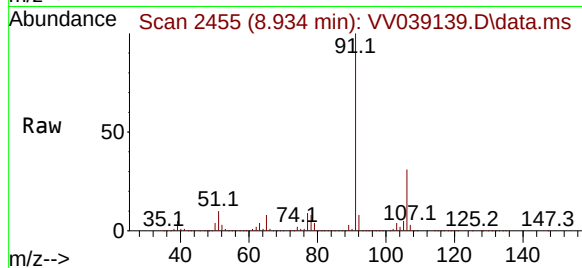
VSTDICCC050

Tgt Ion: 91 Resp: 2057558

Ion Ratio Lower Upper

91 100

106 30.8 24.6 37.0



#68

m/p-Xylenes

Concen: 116.591 ug/l

RT: 9.059 min Scan# 2494

Delta R.T. 0.000 min

Lab File: VV039139.D

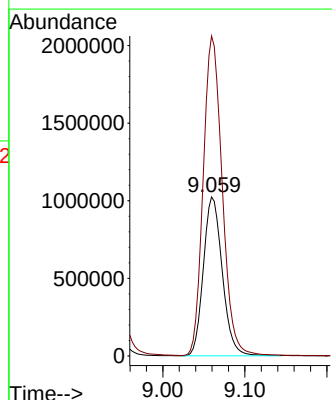
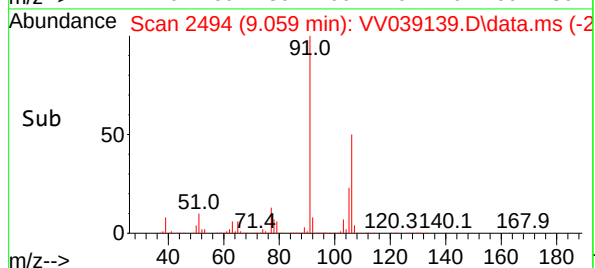
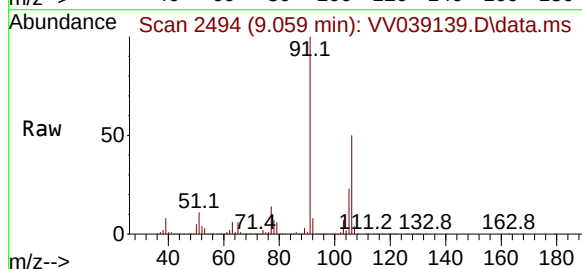
Acq: 22 Sep 2025 13:26

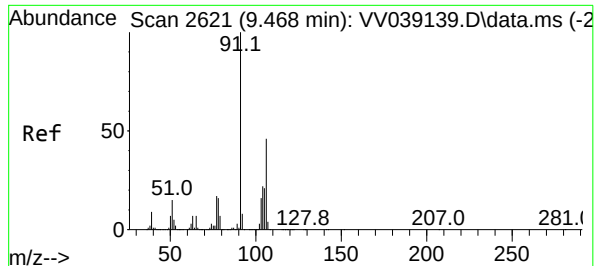
Tgt Ion: 106 Resp: 1639130

Ion Ratio Lower Upper

106 100

91 203.1 162.5 243.7





#69

o-Xylene

Concen: 58.688 ug/l

RT: 9.468 min Scan# 2621

Delta R.T. 0.000 min

Lab File: VV039139.D

Acq: 22 Sep 2025 13:26

Instrument :

MSVOA_V

ClientSampleId :

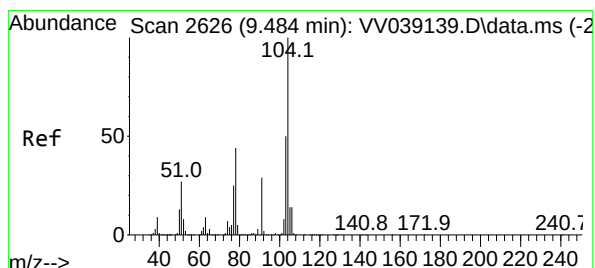
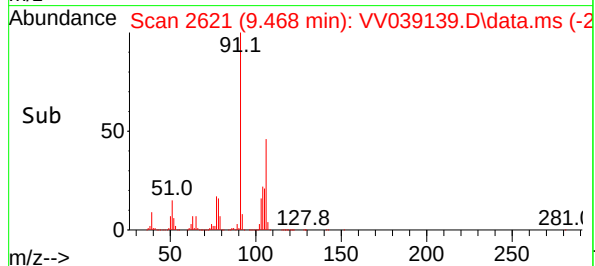
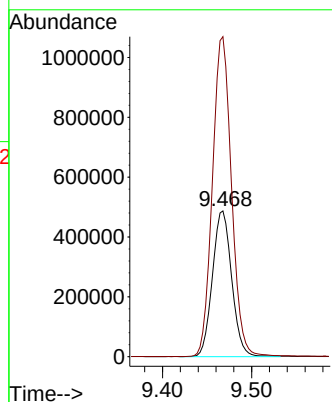
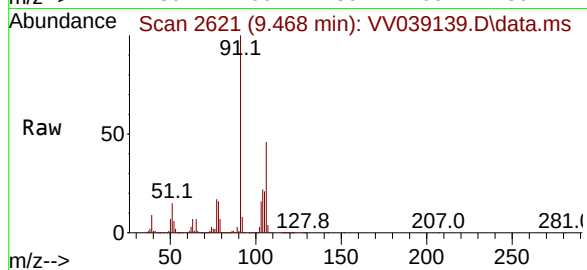
VSTDICCC050

Tgt Ion:106 Resp: 730558

Ion Ratio Lower Upper

106 100

91 218.2 109.1 327.3



#70

Styrene

Concen: 50.845 ug/l

RT: 9.484 min Scan# 2626

Delta R.T. -0.000 min

Lab File: VV039139.D

Acq: 22 Sep 2025 13:26

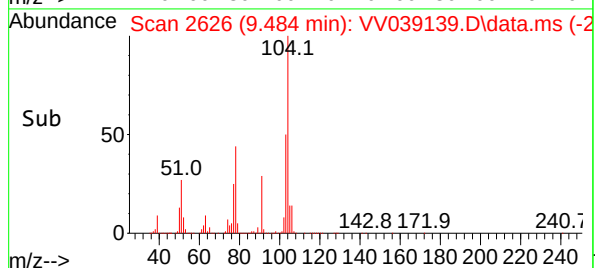
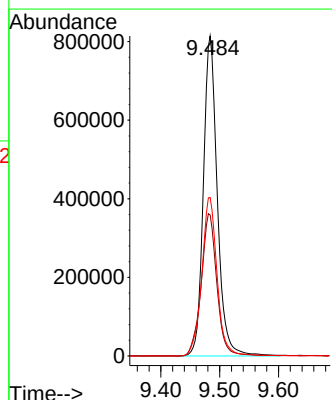
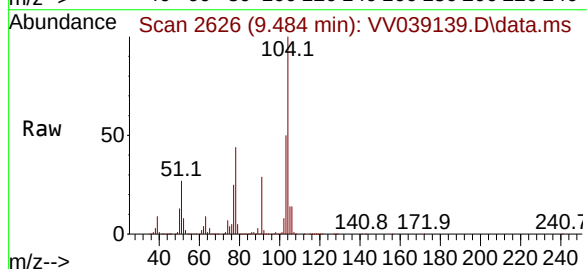
Tgt Ion:104 Resp: 1341298

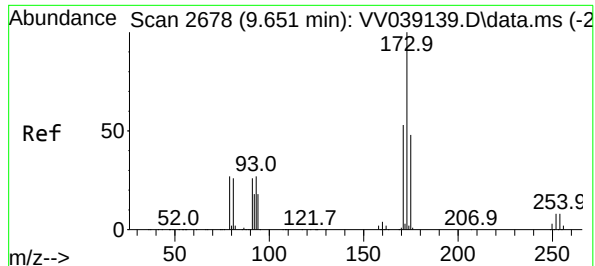
Ion Ratio Lower Upper

104 100

78 49.7 39.8 59.6

103 54.3 43.4 65.2

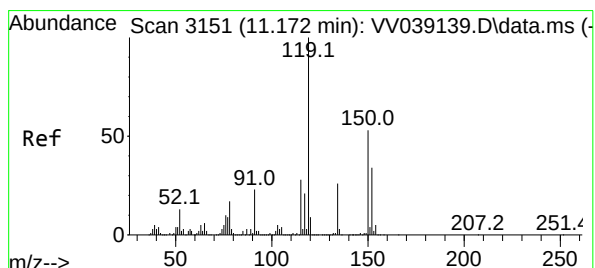
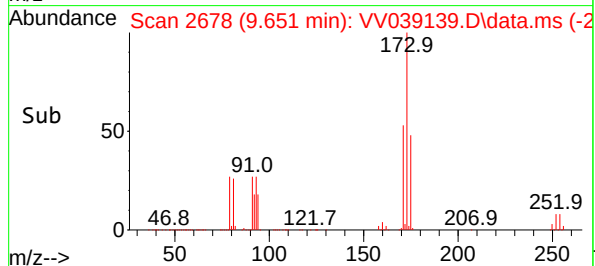
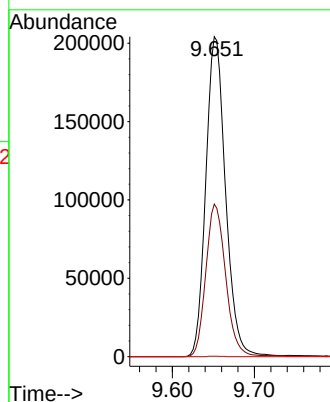
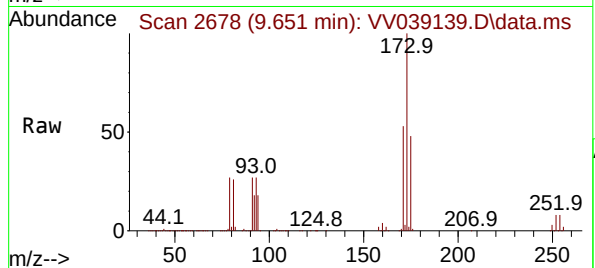




#71
Bromoform
Concen: 50.337 ug/l
RT: 9.651 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

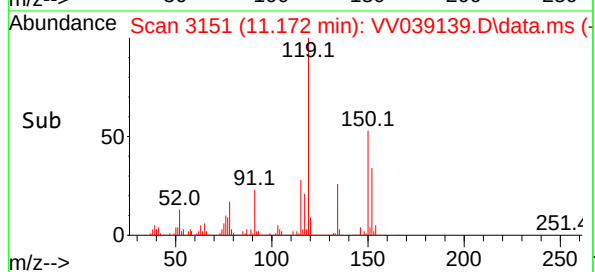
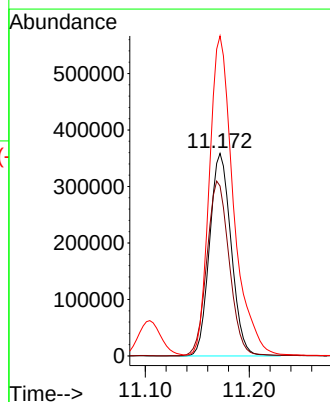
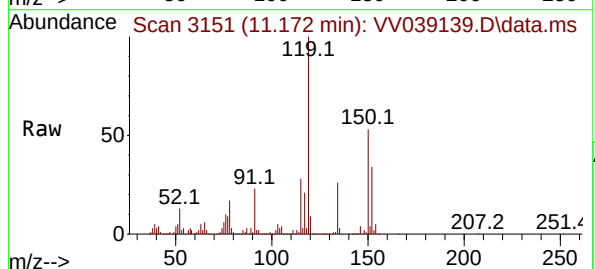
Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

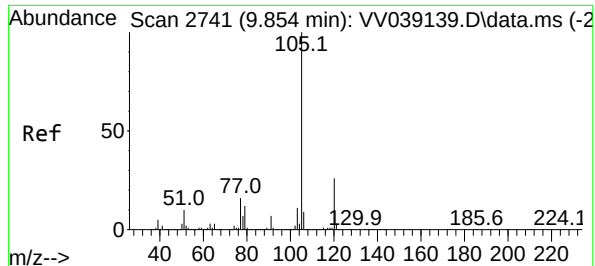
Tgt Ion:173 Resp: 341871
Ion Ratio Lower Upper
173 100
175 47.8 23.9 71.7
254 0.1 0.1 0.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3151
Delta R.T. -0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion:152 Resp: 516167
Ion Ratio Lower Upper
152 100
115 89.6 44.8 134.4
150 176.9 0.0 353.8





#73

Isopropylbenzene

Concen: 54.313 ug/l

RT: 9.854 min Scan# 21

Delta R.T. 0.000 min

Lab File: VV039139.D

Acq: 22 Sep 2025 13:26

Instrument :

MSVOA_V

ClientSampleId :

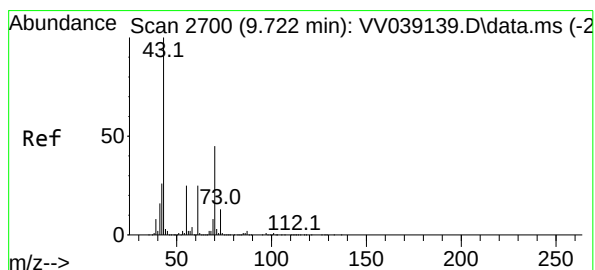
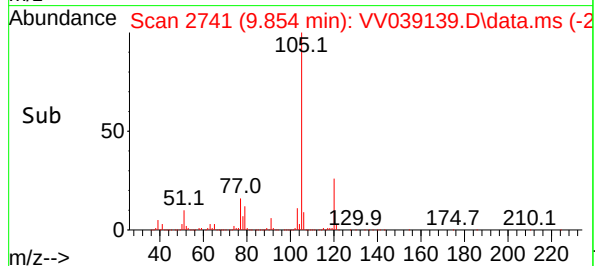
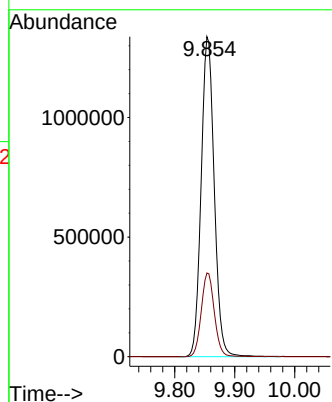
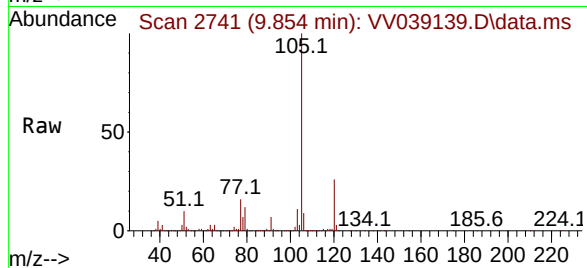
VSTDICCC050

Tgt Ion:105 Resp: 2033373

Ion Ratio Lower Upper

105 100

120 26.1 13.1 39.1



#74

N-ethyl acetate

Concen: 57.833 ug/l

RT: 9.722 min Scan# 2700

Delta R.T. 0.000 min

Lab File: VV039139.D

Acq: 22 Sep 2025 13:26

Tgt Ion: 43 Resp: 863632

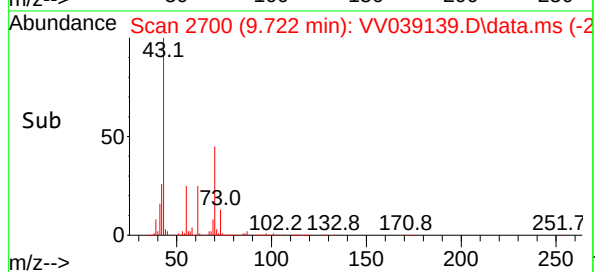
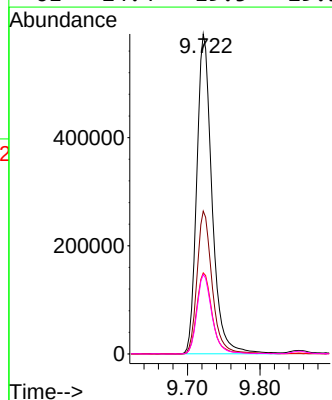
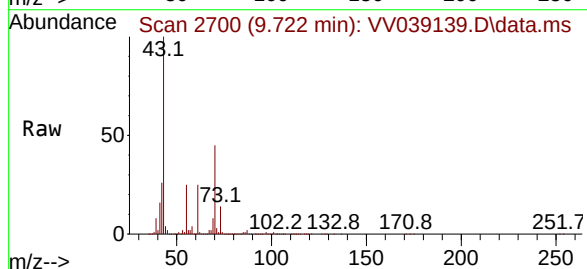
Ion Ratio Lower Upper

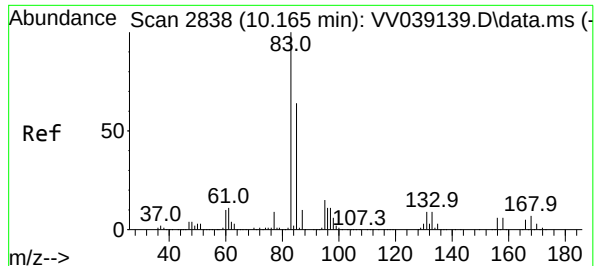
43 100

70 44.2 35.4 53.0

55 25.7 20.6 30.8

61 24.4 19.5 29.3





#75

1,1,2,2-Tetrachloroethane

Concen: 44.844 ug/l

RT: 10.165 min Scan# 2838

Delta R.T. 0.000 min

Lab File: VV039139.D

Acq: 22 Sep 2025 13:26

Instrument :

MSVOA_V

ClientSampleId :

VSTDICCC050

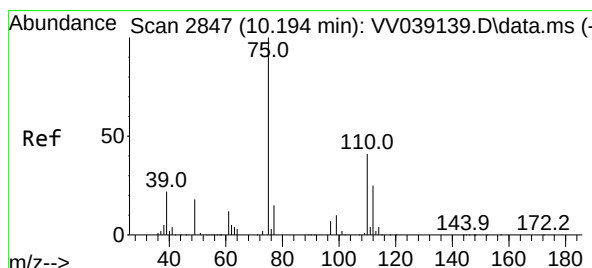
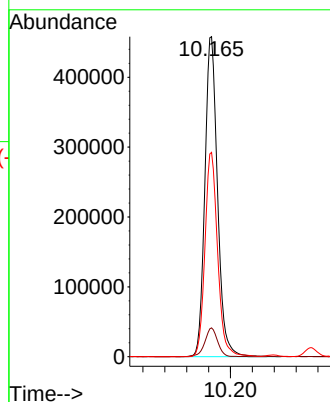
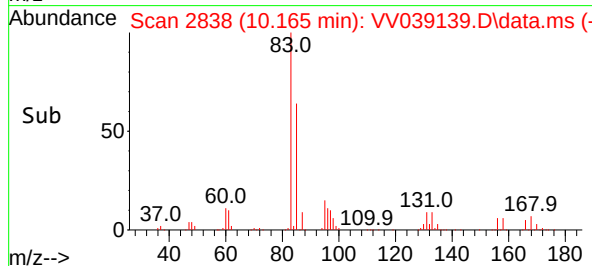
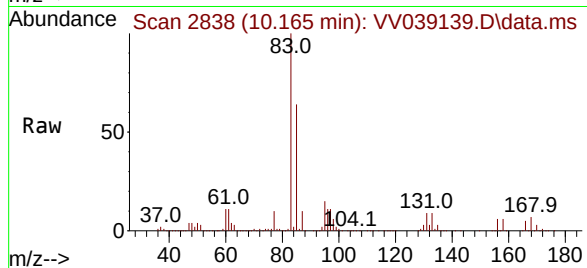
Tgt Ion: 83 Resp: 735590

Ion Ratio Lower Upper

83 100

131 9.1 4.5 13.7

85 63.9 31.9 95.9



#76

1,2,3-Trichloropropane

Concen: 46.080 ug/l

RT: 10.194 min Scan# 2847

Delta R.T. 0.000 min

Lab File: VV039139.D

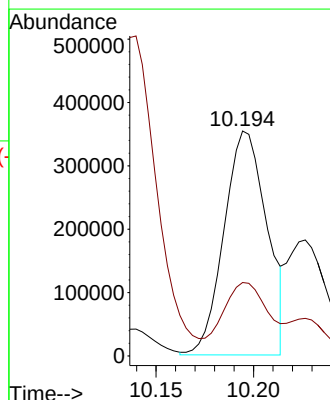
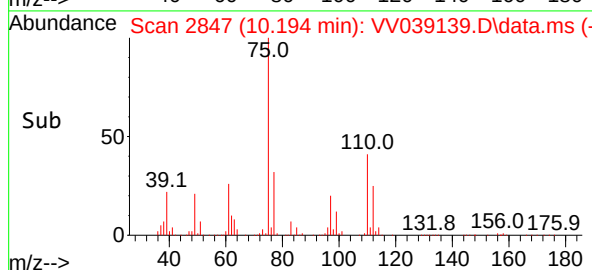
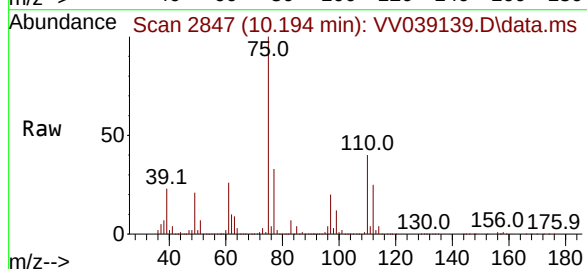
Acq: 22 Sep 2025 13:26

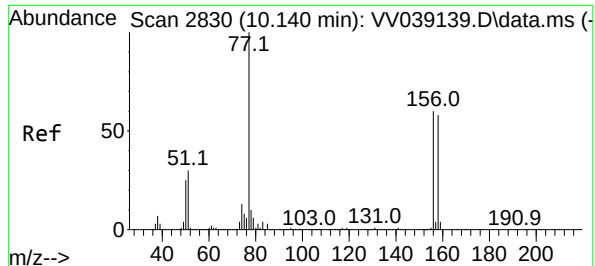
Tgt Ion: 75 Resp: 541552

Ion Ratio Lower Upper

75 100

77 22.5 11.3 33.8

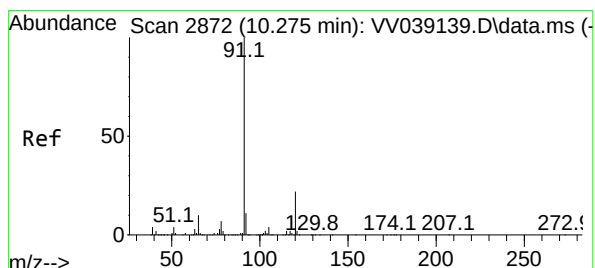
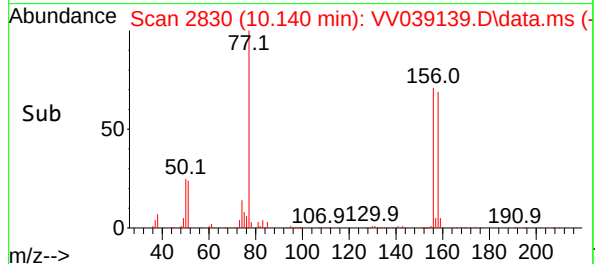
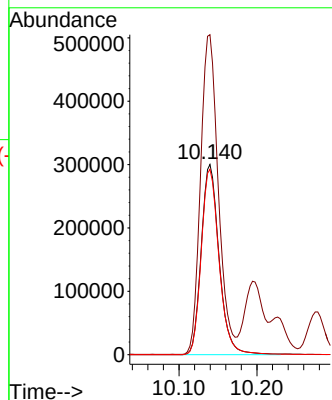
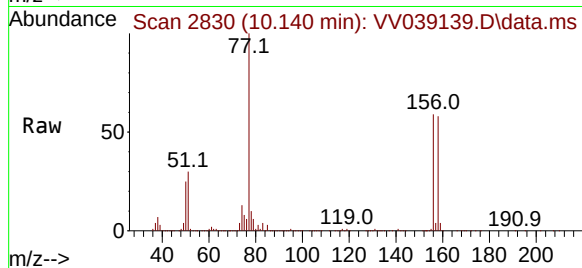




#77
Bromobenzene
Concen: 49.171 ug/l
RT: 10.140 min Scan# 2830
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

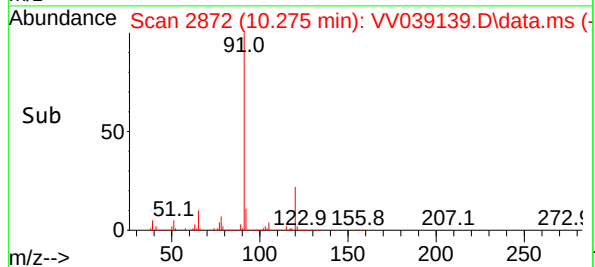
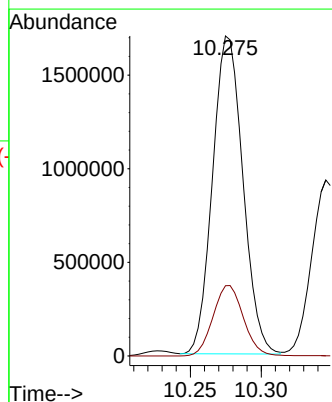
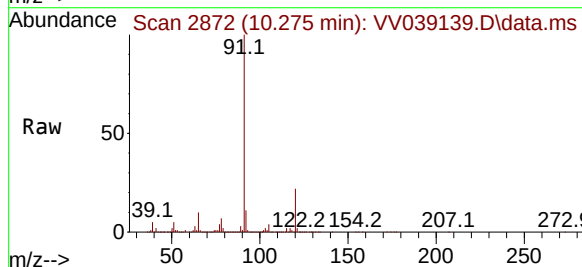
Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

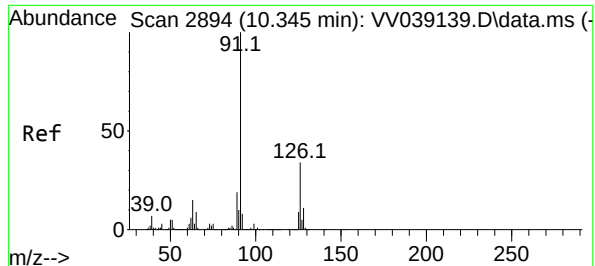
Tgt Ion:156 Resp: 477608
Ion Ratio Lower Upper
156 100
77 166.7 83.4 250.1
158 97.6 48.8 146.4



#78
n-propylbenzene
Concen: 55.461 ug/l
RT: 10.275 min Scan# 2872
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 91 Resp: 2528458
Ion Ratio Lower Upper
91 100
120 22.2 11.1 33.3





#79

2-Chlorotoluene

Concen: 53.612 ug/l

RT: 10.345 min Scan# 2894

Delta R.T. 0.000 min

Lab File: VV039139.D

Acq: 22 Sep 2025 13:26

Instrument :

MSVOA_V

ClientSampleId :

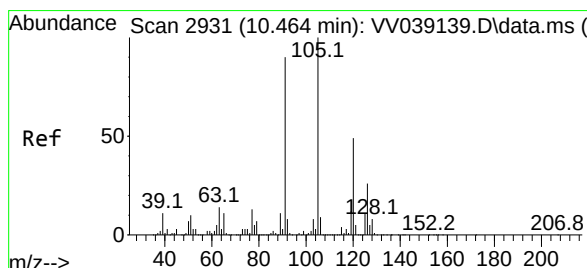
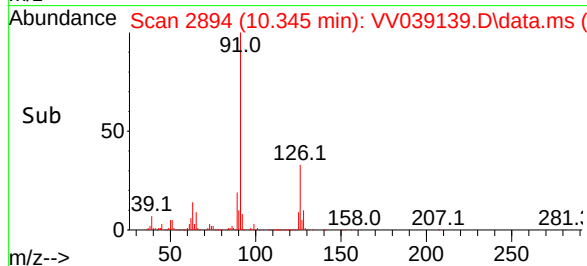
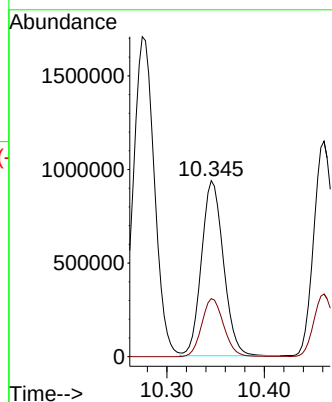
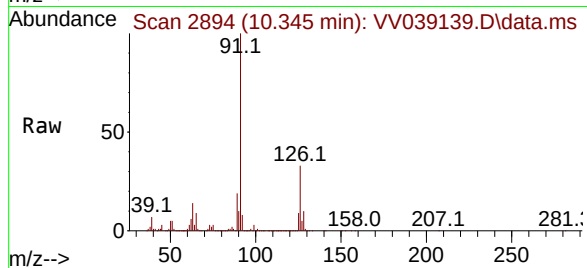
VSTDICCC050

Tgt Ion: 91 Resp: 1462530

Ion Ratio Lower Upper

91 100

126 33.3 16.7 50.0



#80

1,3,5-Trimethylbenzene

Concen: 56.188 ug/l

RT: 10.464 min Scan# 2931

Delta R.T. 0.000 min

Lab File: VV039139.D

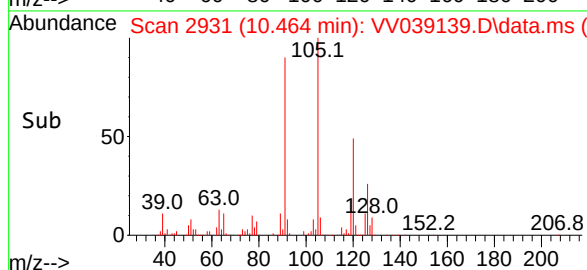
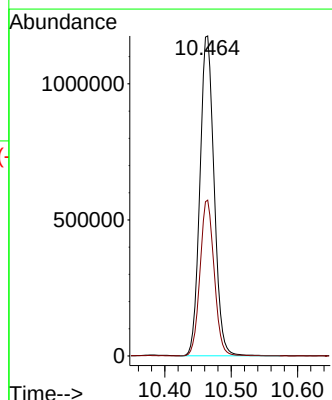
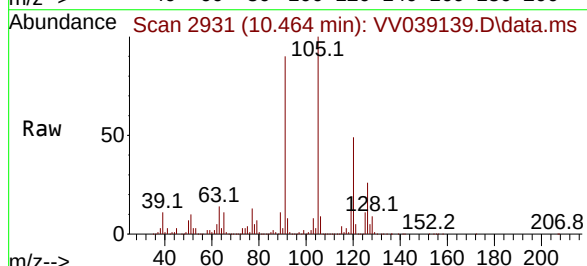
Acq: 22 Sep 2025 13:26

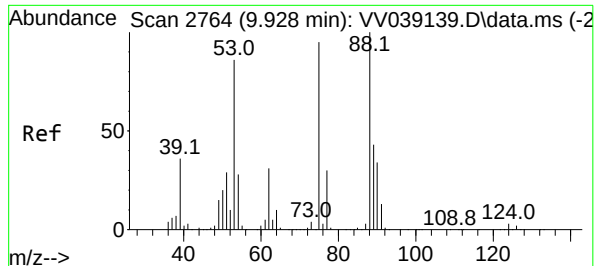
Tgt Ion: 105 Resp: 1748435

Ion Ratio Lower Upper

105 100

120 48.5 24.3 72.8

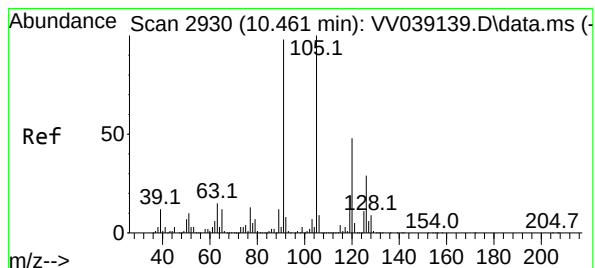
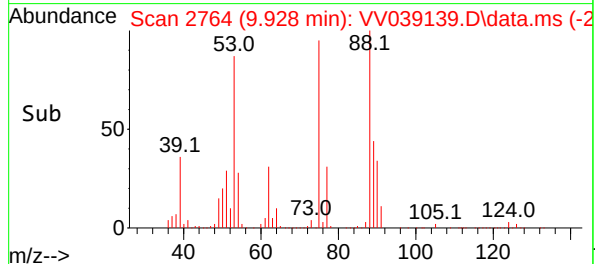
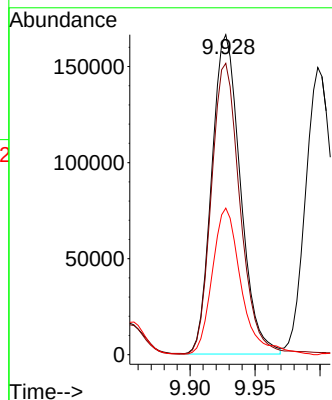
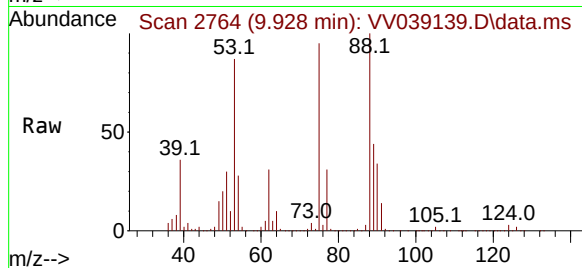




#81
trans-1,4-Dichloro-2-butene
Concen: 52.143 ug/l
RT: 9.928 min Scan# 2764
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

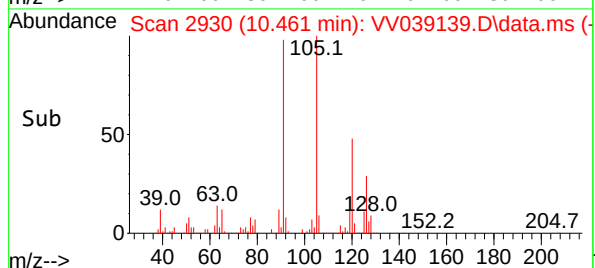
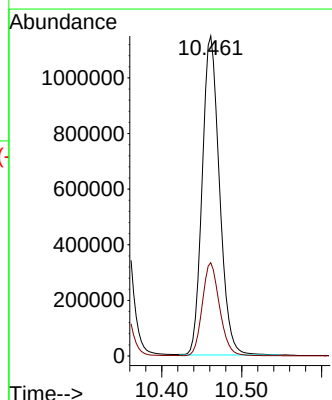
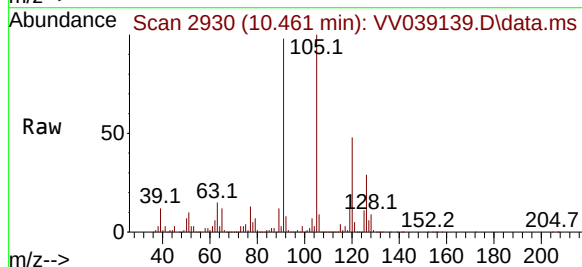
Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

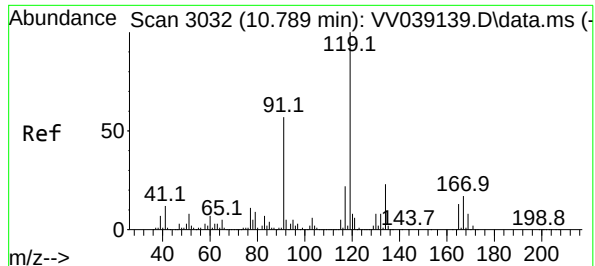
Tgt Ion: 75 Resp: 255259
Ion Ratio Lower Upper
75 100
53 90.6 72.5 108.7
89 46.5 37.2 55.8



#82
4-Chlorotoluene
Concen: 54.466 ug/l
RT: 10.461 min Scan# 2930
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 91 Resp: 1722899
Ion Ratio Lower Upper
91 100
126 29.1 14.5 43.6





#83

tert-Butylbenzene

Concen: 53.602 ug/l

RT: 10.789 min Scan# 3032

Delta R.T. 0.000 min

Lab File: VV039139.D

Acq: 22 Sep 2025 13:26

Instrument :

MSVOA_V

ClientSampleId :

VSTDICCC050

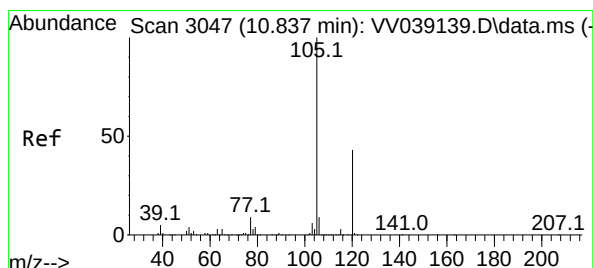
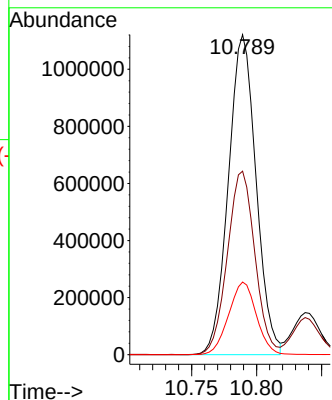
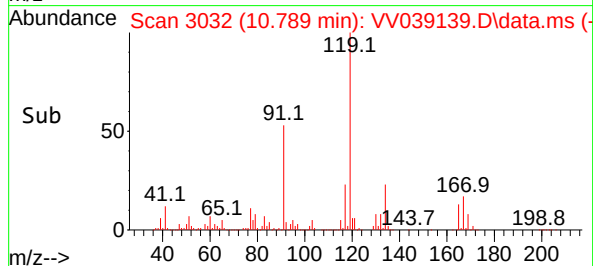
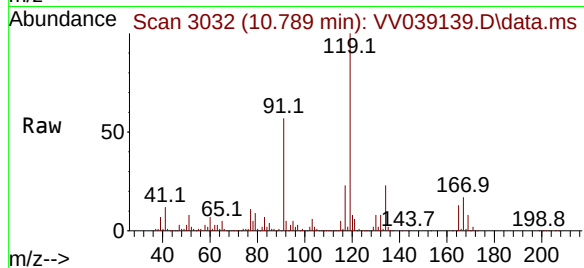
Tgt Ion:119 Resp: 1663245

Ion Ratio Lower Upper

119 100

91 57.1 28.5 85.6

134 22.9 11.5 34.4



#84

1,2,4-Trimethylbenzene

Concen: 57.709 ug/l

RT: 10.837 min Scan# 3047

Delta R.T. 0.000 min

Lab File: VV039139.D

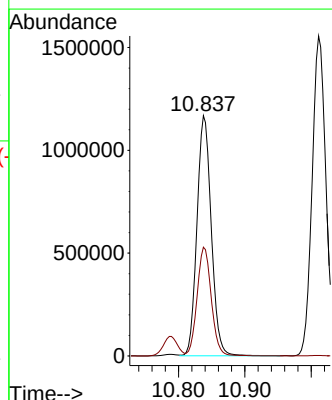
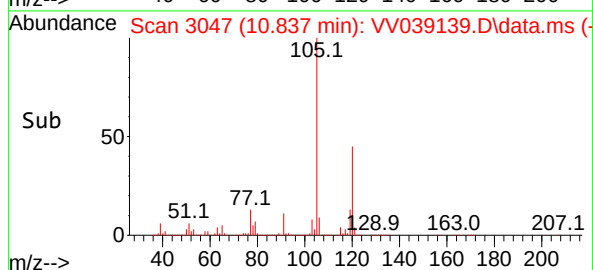
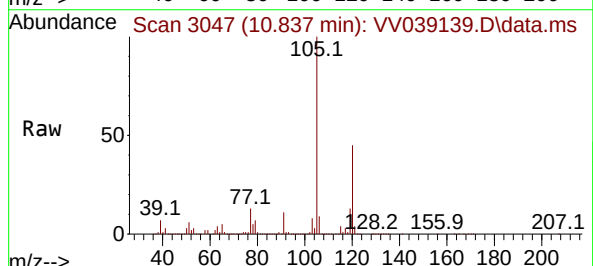
Acq: 22 Sep 2025 13:26

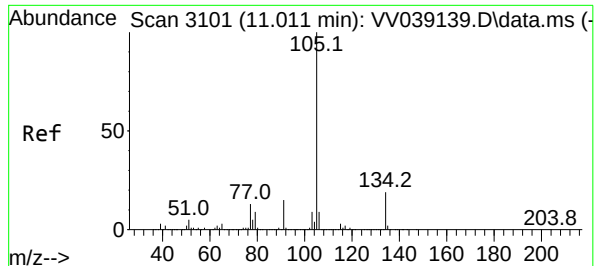
Tgt Ion:105 Resp: 1743425

Ion Ratio Lower Upper

105 100

120 44.8 22.4 67.2





#85

sec-Butylbenzene

Concen: 54.737 ug/l

RT: 11.011 min Scan# 3101

Delta R.T. 0.000 min

Lab File: VV039139.D

Acq: 22 Sep 2025 13:26

Instrument :

MSVOA_V

ClientSampleId :

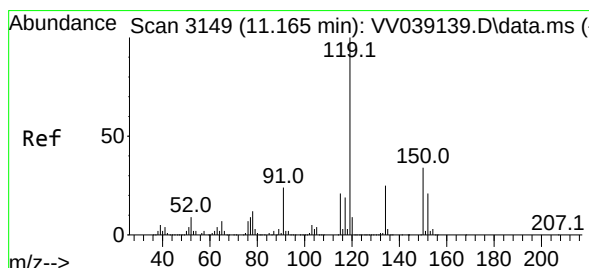
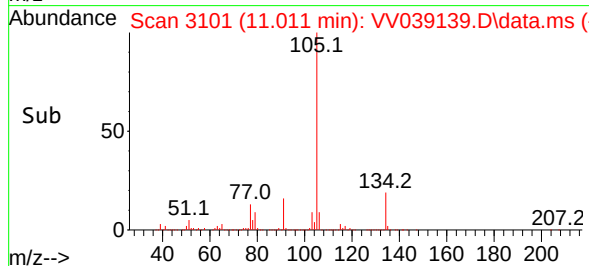
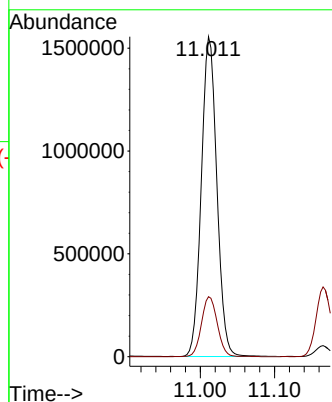
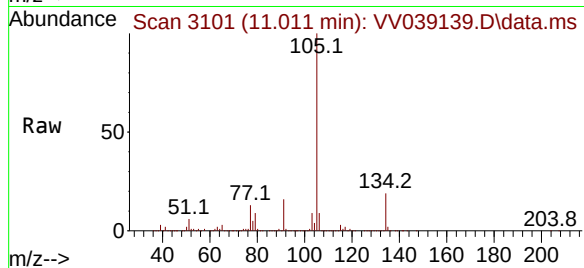
VSTDICCC050

Tgt Ion:105 Resp: 2252781

Ion Ratio Lower Upper

105 100

134 19.2 9.6 28.8



#86

p-Isopropyltoluene

Concen: 55.479 ug/l

RT: 11.165 min Scan# 3149

Delta R.T. 0.000 min

Lab File: VV039139.D

Acq: 22 Sep 2025 13:26

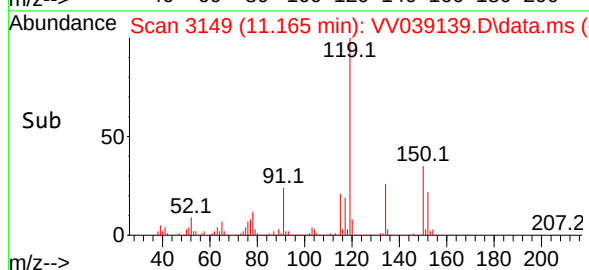
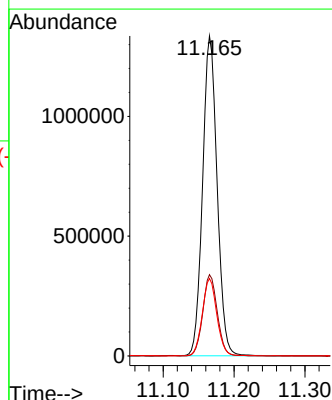
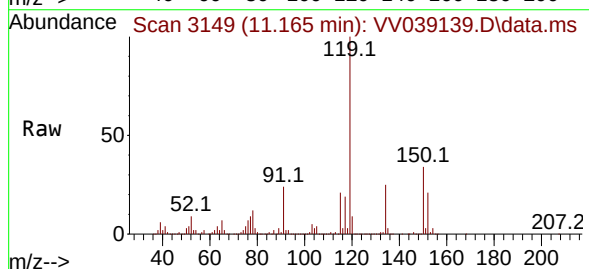
Tgt Ion:119 Resp: 1900412

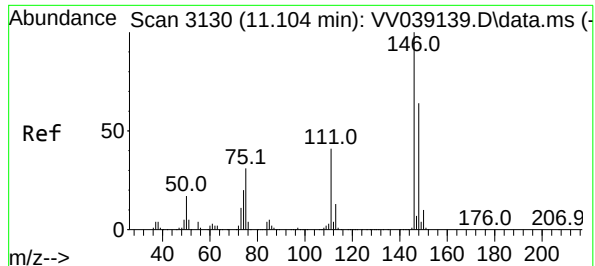
Ion Ratio Lower Upper

119 100

134 25.3 12.7 38.0

91 24.1 12.0 36.1





#87

1,3-Dichlorobenzene

Concen: 48.769 ug/l

RT: 11.104 min Scan# 3130

Delta R.T. 0.000 min

Lab File: VV039139.D

Acq: 22 Sep 2025 13:26

Instrument :

MSVOA_V

ClientSampleId :

VSTDICCC050

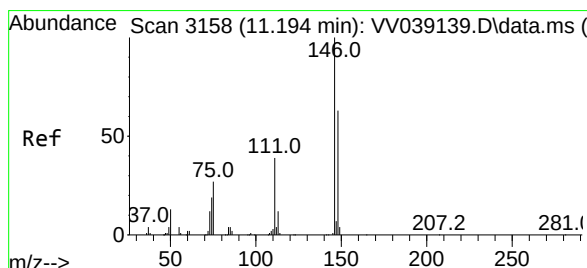
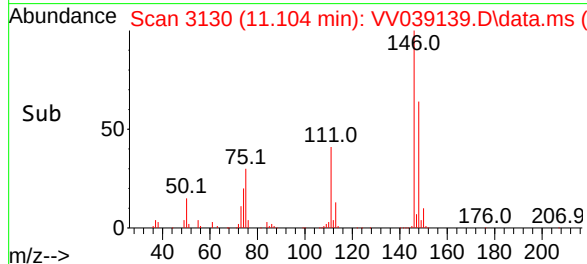
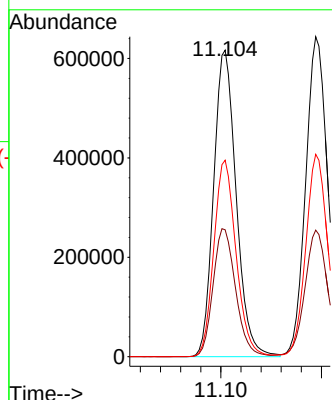
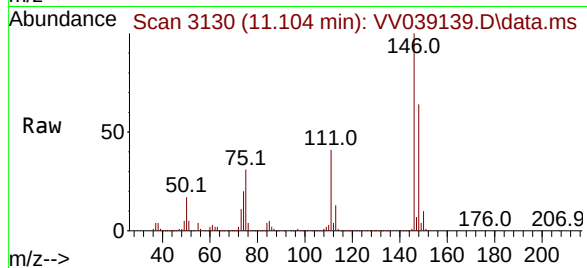
Tgt Ion:146 Resp: 958701

Ion Ratio Lower Upper

146 100

111 41.9 20.9 62.8

148 63.5 31.8 95.3



#88

1,4-Dichlorobenzene

Concen: 45.957 ug/l

RT: 11.194 min Scan# 3158

Delta R.T. 0.000 min

Lab File: VV039139.D

Acq: 22 Sep 2025 13:26

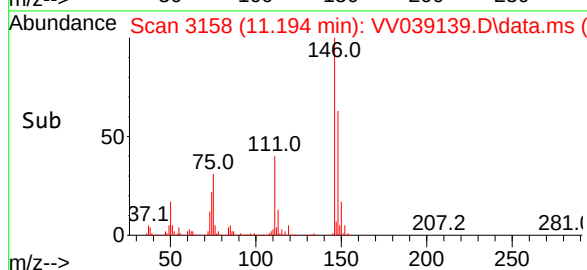
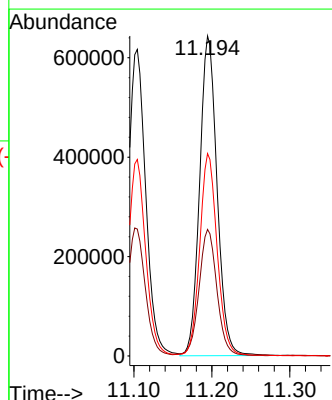
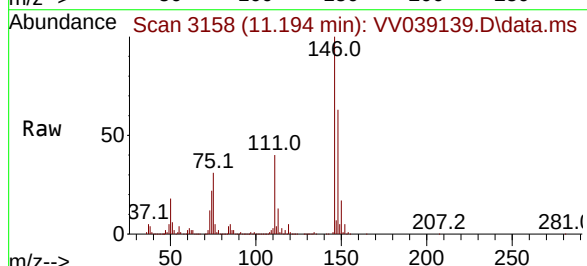
Tgt Ion:146 Resp: 998426

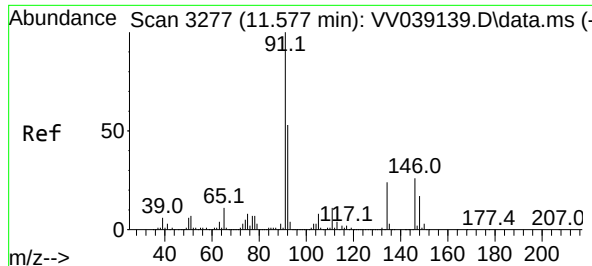
Ion Ratio Lower Upper

146 100

111 40.5 20.3 60.8

148 62.8 31.4 94.2





#89

n-Butylbenzene

Concen: 57.003 ug/l

RT: 11.577 min Scan# 3277

Delta R.T. 0.000 min

Lab File: VV039139.D

Acq: 22 Sep 2025 13:26

Instrument :

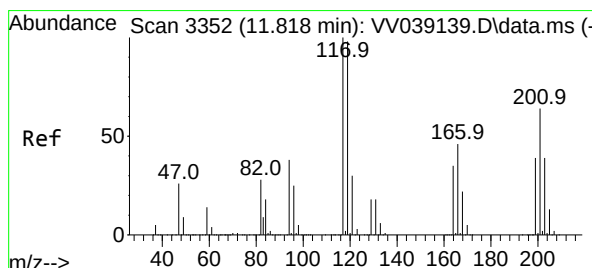
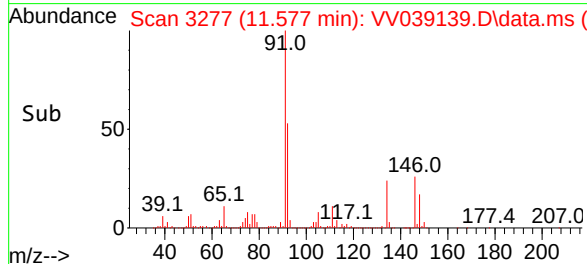
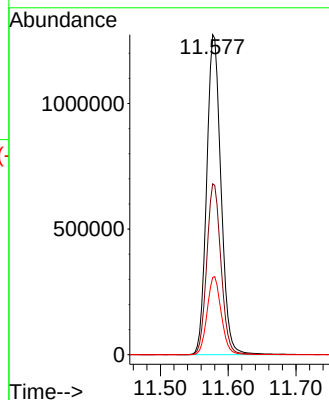
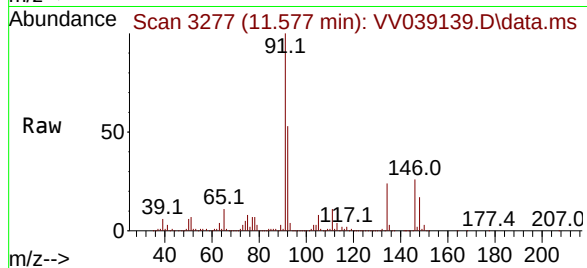
MSVOA_V

ClientSampleId :

VSTDICCC050

Tgt Ion: 91 Resp: 1864844

Ion	Ratio	Lower	Upper
91	100		
92	53.2	26.6	79.8
134	24.2	12.1	36.3



#90

Hexachloroethane

Concen: 44.553 ug/l

RT: 11.818 min Scan# 3352

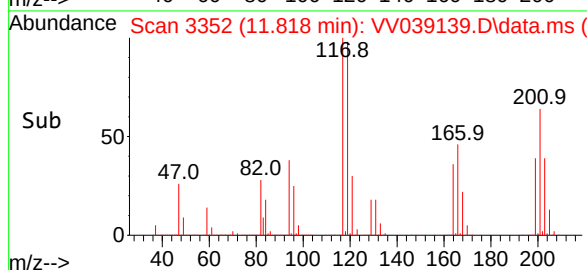
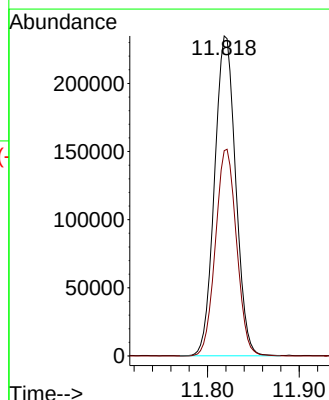
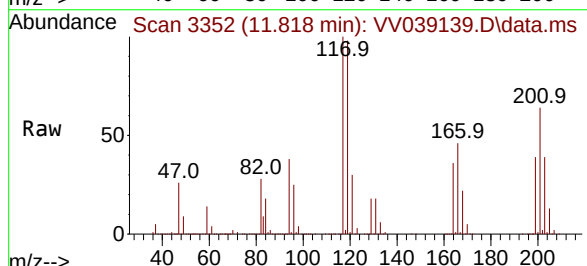
Delta R.T. 0.000 min

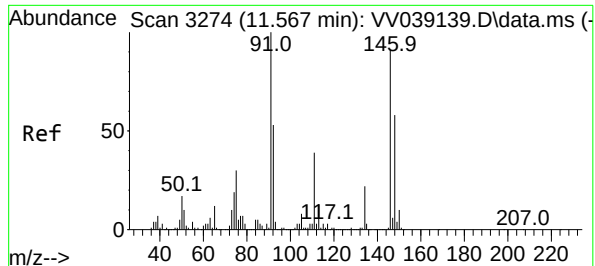
Lab File: VV039139.D

Acq: 22 Sep 2025 13:26

Tgt Ion: 117 Resp: 375818

Ion	Ratio	Lower	Upper
117	100		
201	64.5	32.3	96.8

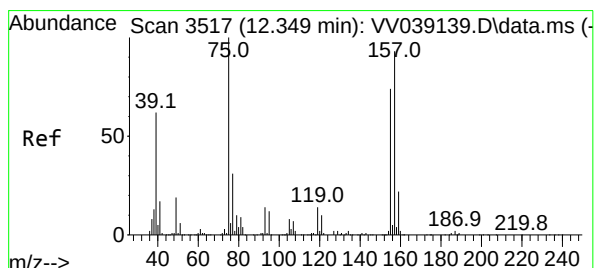
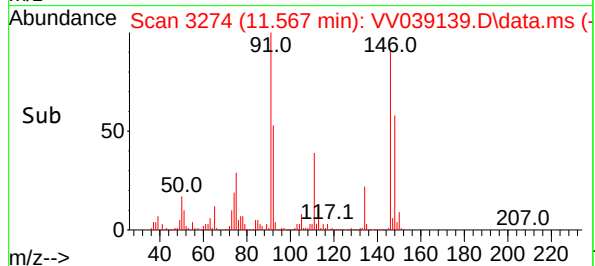
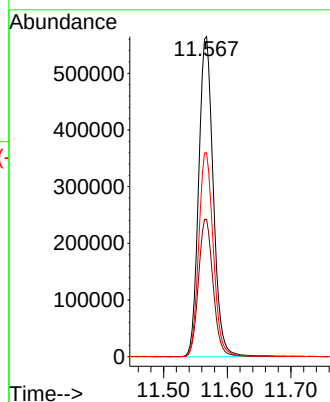
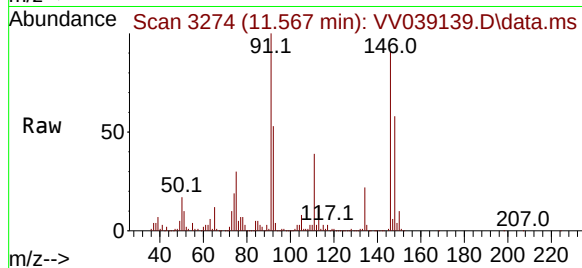




#91
1,2-Dichlorobenzene
Concen: 48.848 ug/l
RT: 11.567 min Scan# 317
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

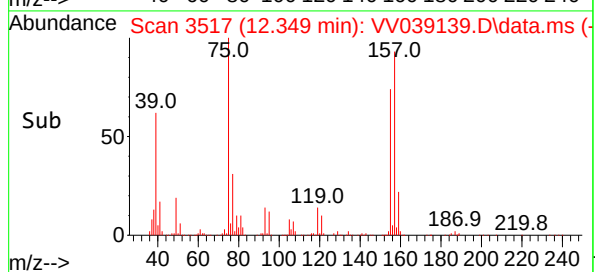
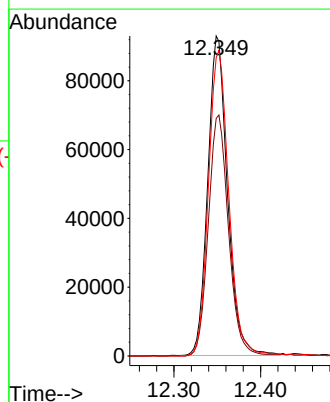
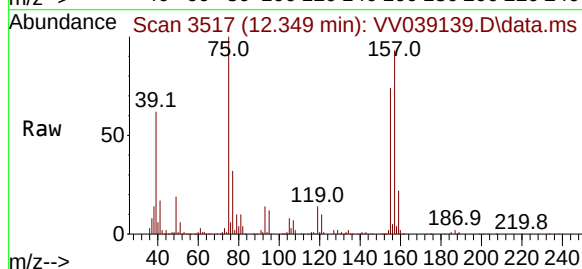
Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

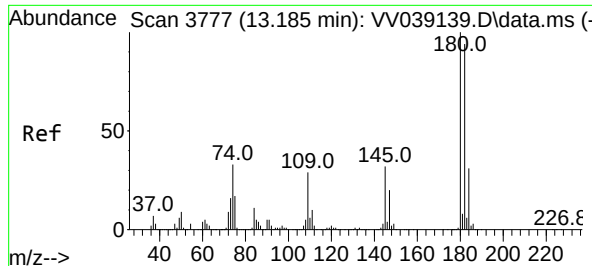
Tgt Ion:146 Resp: 897135
Ion Ratio Lower Upper
146 100
111 43.0 21.5 64.5
148 63.8 31.9 95.7



#92
1,2-Dibromo-3-Chloropropane
Concen: 49.928 ug/l
RT: 12.349 min Scan# 3517
Delta R.T. -0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 75 Resp: 147329
Ion Ratio Lower Upper
75 100
155 77.2 38.6 115.8
157 98.9 49.5 148.3





#93

1,2,4-Trichlorobenzene

Concen: 52.747 ug/l

RT: 13.185 min Scan# 31

Delta R.T. -0.000 min

Lab File: VV039139.D

Acq: 22 Sep 2025 13:26

Instrument :

MSVOA_V

ClientSampleId :

VSTDICCC050

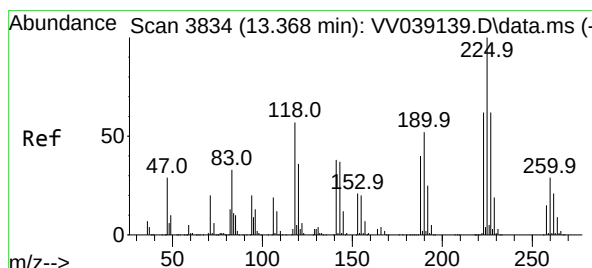
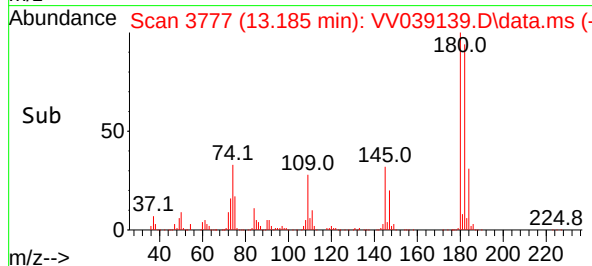
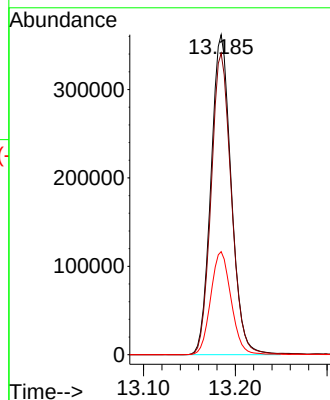
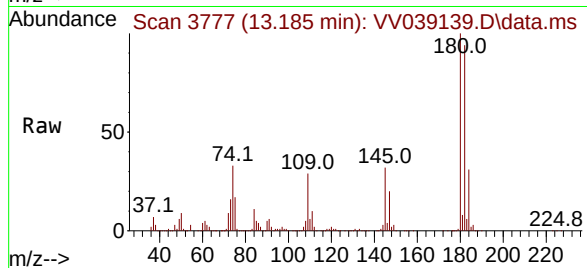
Tgt Ion:180 Resp: 555323

Ion Ratio Lower Upper

180 100

182 94.3 47.1 141.4

145 32.5 16.3 48.8



#94

Hexachlorobutadiene

Concen: 45.279 ug/l

RT: 13.368 min Scan# 3834

Delta R.T. -0.000 min

Lab File: VV039139.D

Acq: 22 Sep 2025 13:26

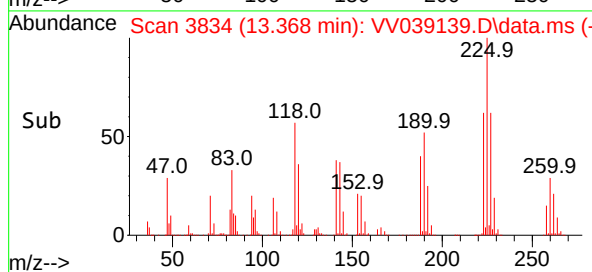
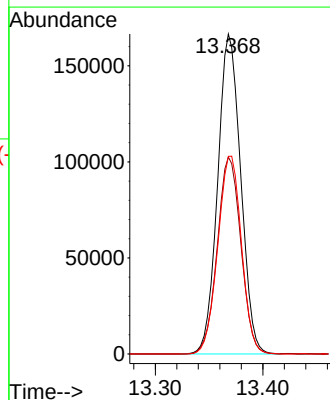
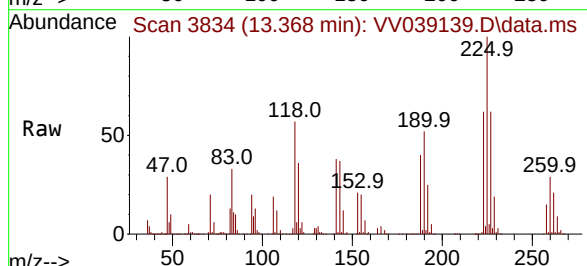
Tgt Ion:225 Resp: 247695

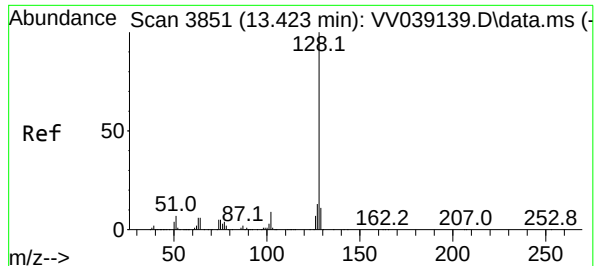
Ion Ratio Lower Upper

225 100

223 63.1 31.6 94.7

227 63.6 31.8 95.4





#95

Naphthalene

Concen: 58.135 ug/l

RT: 13.423 min Scan# 3851

Delta R.T. -0.000 min

Lab File: VV039139.D

Acq: 22 Sep 2025 13:26

Instrument :

MSVOA_V

ClientSampleId :

VSTDICCC050

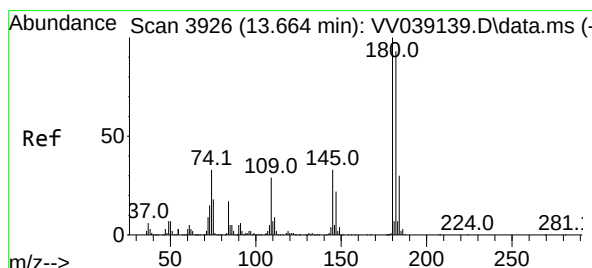
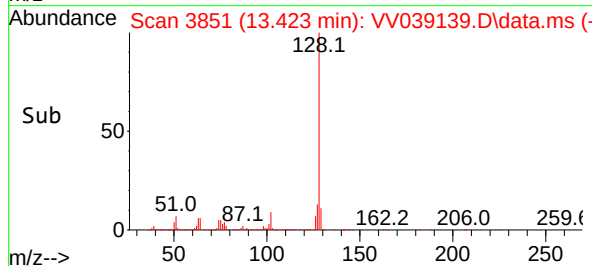
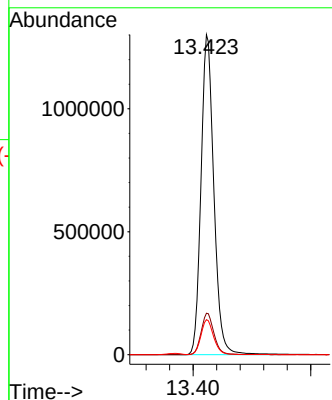
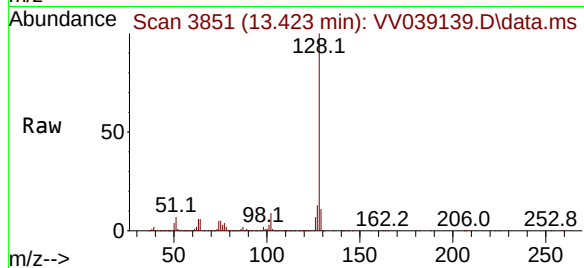
Tgt Ion:128 Resp: 1968567

Ion Ratio Lower Upper

128 100

127 12.9 10.3 15.5

129 10.8 8.6 13.0



#96

1,2,3-Trichlorobenzene

Concen: 53.081 ug/l

RT: 13.664 min Scan# 3926

Delta R.T. 0.000 min

Lab File: VV039139.D

Acq: 22 Sep 2025 13:26

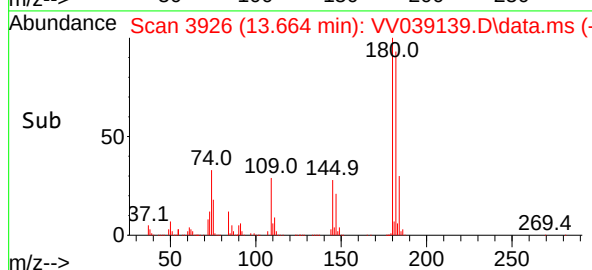
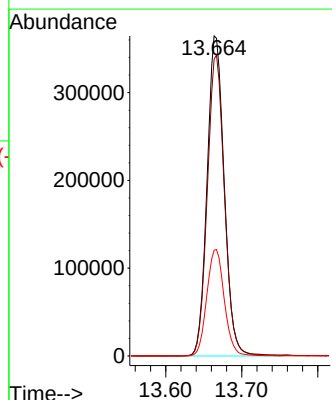
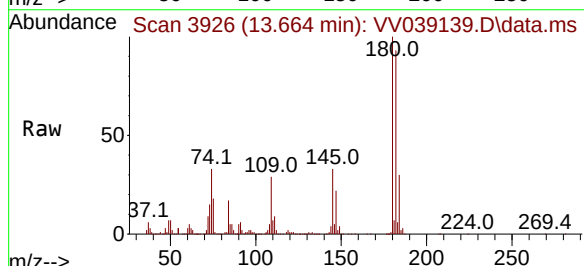
Tgt Ion:180 Resp: 571563

Ion Ratio Lower Upper

180 100

182 93.9 46.9 140.8

145 34.0 17.0 51.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VW092225\
 Data File : VW039140.D
 Acq On : 22 Sep 2025 13:49
 Operator : SY/MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDICC100

Quant Time: Sep 24 07:24:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 24 07:14:23 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	4.600	168	587274	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.532	114	935392	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	904902	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	523452	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.941	65	725543	85.362	ug/l	0.00
Spiked Amount	50.000	Range	81 - 118	Recovery	= 170.720%#	
35) Dibromofluoromethane	4.500	113	674408	89.684	ug/l	0.00
Spiked Amount	50.000	Range	80 - 119	Recovery	= 179.360%#	
50) Toluene-d8	7.236	98	2052477	92.932	ug/l	0.00
Spiked Amount	50.000	Range	89 - 112	Recovery	= 185.860%#	
62) 4-Bromofluorobenzene	9.998	95	937505	103.112	ug/l	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	= 206.220%#	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.121	85	820676	88.278	ug/l	99
3) Chloromethane	1.230	50	856347	85.806	ug/l	98
4) Vinyl Chloride	1.298	62	940694	88.044	ug/l	99
5) Bromomethane	1.487	94	615924	91.446	ug/l	99
6) Chloroethane	1.555	64	587651	100.067	ug/l	99
7) Trichlorofluoromethane	1.722	101	1351410	87.363	ug/l	99
8) Diethyl Ether	1.918	74	511033	88.990	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.079	101	806216	87.593	ug/l	98
10) Methyl Iodide	2.195	142	931666	106.294	ug/l	100
11) Tert butyl alcohol	2.574	59	798702	444.608	ug/l	99
12) 1,1-Dichloroethene	2.079	96	778436	87.914	ug/l	98
13) Acrolein	2.008	56	160749	515.691	ug/l	99
14) Allyl chloride	2.355	41	1418889	89.708	ug/l	99
15) Acrylonitrile	2.674	53	2509475	435.771	ug/l	100
16) Acetone	2.118	43	2432444	499.795	ug/l	100
17) Carbon Disulfide	2.253	76	2332239	86.125	ug/l	99
18) Methyl Acetate	2.378	43	1142900	90.753	ug/l	100
19) Methyl tert-butyl Ether	2.712	73	2586428	91.667	ug/l	99
20) Methylene Chloride	2.455	84	870955	100.038	ug/l	99
21) trans-1,2-Dichloroethene	2.699	96	817275	86.701	ug/l	98
22) Diisopropyl ether	3.217	45	2857568	94.428	ug/l	94
23) Vinyl Acetate	3.188	43	12498986	472.148	ug/l	99
24) 1,1-Dichloroethane	3.117	63	1560774	84.338	ug/l	99
25) 2-Butanone	3.863	43	3404031	508.801	ug/l	99
26) 2,2-Dichloropropane	3.812	77	1414724	86.559	ug/l	100
27) cis-1,2-Dichloroethene	3.818	96	1010617	97.210	ug/l	99
28) Bromochloromethane	4.146	49	748549	91.624	ug/l	98
29) Tetrahydrofuran	4.233	42	2198745	516.116	ug/l	99
30) Chloroform	4.278	83	1682895	87.087	ug/l	98
31) Cyclohexane	4.580	56	1473260	97.182	ug/l	97
32) 1,1,1-Trichloroethane	4.513	97	1483938	88.700	ug/l	99
36) 1,1-Dichloropropene	4.741	75	1144520	99.944	ug/l	100
37) Ethyl Acetate	3.973	43	1328655	94.580	ug/l	98
38) Carbon Tetrachloride	4.735	117	1263028	91.566	ug/l	100
39) Methylcyclohexane	6.047	83	1603169	116.766	ug/l	98
40) Benzene	5.008	78	3611886	97.560	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VW092225\
 Data File : VW039140.D
 Acq On : 22 Sep 2025 13:49
 Operator : SY/MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDICC100

Quant Time: Sep 24 07:24:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 24 07:14:23 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.156	41	639301	100.494	ug/l	99
42) 1,2-Dichloroethane	5.037	62	1202991	92.737	ug/l	100
43) Isopropyl Acetate	5.191	43	2058622	106.372	ug/l	100
44) Trichloroethene	5.828	130	849813	99.474	ug/l	97
45) 1,2-Dichloropropane	6.088	63	909288	98.813	ug/l	95
46) Dibromomethane	6.220	93	661336	93.898	ug/l	98
47) Bromodichloromethane	6.426	83	1355845	93.118	ug/l	99
48) Methyl methacrylate	6.294	41	984431	111.182	ug/l	99
49) 1,4-Dioxane	6.288	88	304943	2191.331	ug/l	95
51) 4-Methyl-2-Pentanone	7.149	43	6674594	539.372	ug/l	99
52) Toluene	7.307	92	2271340	105.813	ug/l	99
53) t-1,3-Dichloropropene	7.571	75	1408125	110.970	ug/l	97
54) cis-1,3-Dichloropropene	6.947	75	1501380	107.178	ug/l	100
55) 1,1,2-Trichloroethane	7.757	97	897804	93.280	ug/l	99
56) Ethyl methacrylate	7.712	69	1424432	124.621	ug/l	99
57) 1,3-Dichloropropane	7.931	76	1501225	98.832	ug/l	100
58) 2-Chloroethyl Vinyl ether	6.812	63	3282267	498.705	ug/l	100
59) 2-Hexanone	8.063	43	4988835	497.186	ug/l	99
60) Dibromochloromethane	8.165	129	1044126	95.206	ug/l	99
61) 1,2-Dibromoethane	8.272	107	960914	97.622	ug/l	98
64) Tetrachloroethene	7.895	164	736462	97.167	ug/l	97
65) Chlorobenzene	8.802	112	2457021	97.480	ug/l	97
66) 1,1,1,2-Tetrachloroethane	8.895	131	863523	94.816	ug/l	100
67) Ethyl Benzene	8.934	91	4376266	114.700	ug/l	100
68) m/p-Xylenes	9.059	106	3396653	230.657	ug/l	100
69) o-Xylene	9.468	106	1592963	122.170	ug/l	98
70) Styrene	9.484	104	2781887	99.832	ug/l	100
71) Bromoform	9.651	173	724467	101.838	ug/l	99
73) Isopropylbenzene	9.854	105	4288139	112.946	ug/l	100
74) N-amyl acetate	9.722	43	1846779	121.948	ug/l	98
75) 1,1,2,2-Tetrachloroethane	10.165	83	1453989	87.406	ug/l	100
76) 1,2,3-Trichloropropane	10.198	75	1070580	89.827	ug/l	95
77) Bromobenzene	10.140	156	993863	100.897	ug/l	99
78) n-propylbenzene	10.278	91	5220220	112.910	ug/l	99
79) 2-Chlorotoluene	10.345	91	3018051	109.093	ug/l	99
80) 1,3,5-Trimethylbenzene	10.464	105	3638030	115.284	ug/l	100
81) trans-1,4-Dichloro-2-b...	9.927	75	545452	109.871	ug/l	97
82) 4-Chlorotoluene	10.461	91	3573507	111.396	ug/l	100
83) tert-Butylbenzene	10.789	119	3572813	113.541	ug/l	99
84) 1,2,4-Trimethylbenzene	10.837	105	3601355	117.550	ug/l	100
85) sec-Butylbenzene	11.011	105	4763689	114.135	ug/l	100
86) p-Isopropyltoluene	11.165	119	3948556	113.666	ug/l	99
87) 1,3-Dichlorobenzene	11.104	146	1970594	98.849	ug/l	99
88) 1,4-Dichlorobenzene	11.194	146	2008676	91.172	ug/l	99
89) n-Butylbenzene	11.577	91	3939852	118.754	ug/l	99
90) Hexachloroethane	11.818	117	776688	90.794	ug/l	99
91) 1,2-Dichlorobenzene	11.564	146	1886394	101.282	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.349	75	316446	100.015	ug/l	96
93) 1,2,4-Trichlorobenzene	13.185	180	1244510	116.564	ug/l	100
94) Hexachlorobutadiene	13.368	225	524789	94.597	ug/l	99
95) Naphthalene	13.423	128	4442612	129.371	ug/l	100
96) 1,2,3-Trichlorobenzene	13.667	180	1246406	114.143	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039140.D
Acq On : 22 Sep 2025 13:49
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

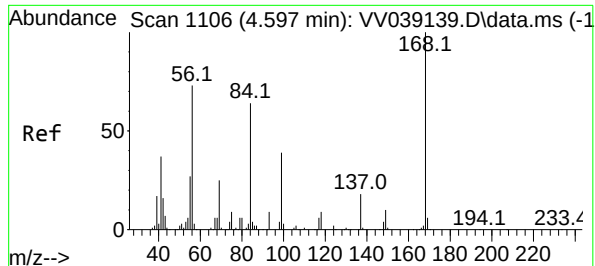
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

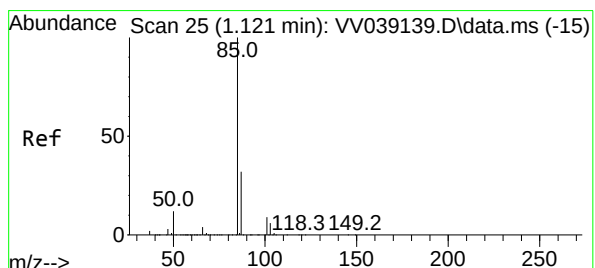
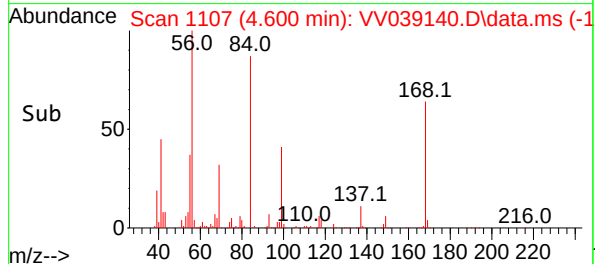
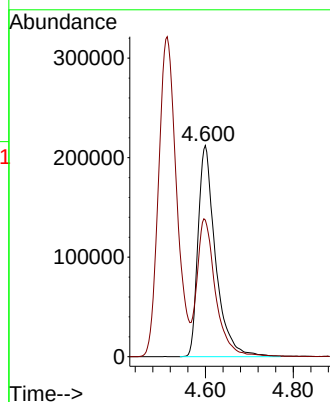
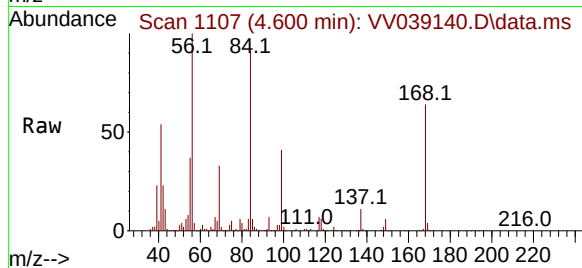
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- 2
- 3
- 4
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- 6
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- 8
- 9
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- 11
- 12
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- 14
- 15
- 16



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 1106
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

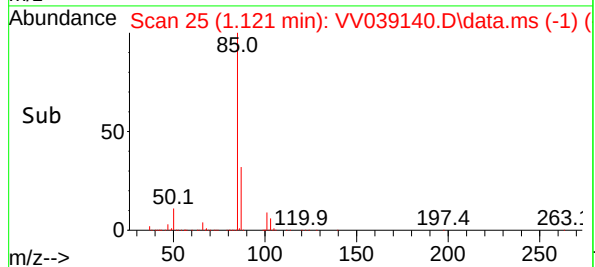
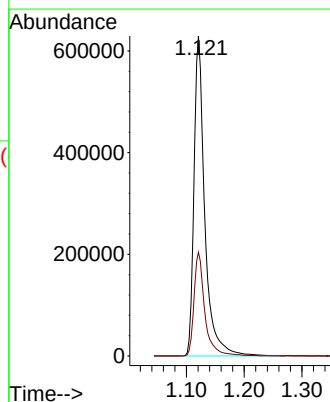
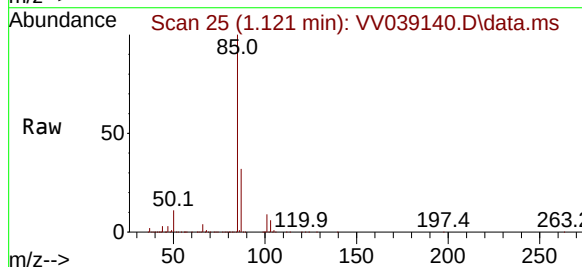
Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

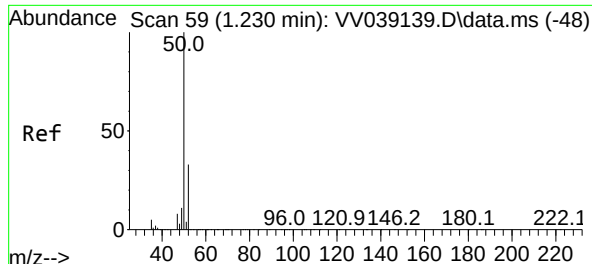
Tgt Ion:168 Resp: 587274
Ion Ratio Lower Upper
168 100
99 64.4 49.6 74.4



#2
Dichlorodifluoromethane
Concen: 88.278 ug/l
RT: 1.121 min Scan# 25
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 85 Resp: 820676
Ion Ratio Lower Upper
85 100
87 32.5 16.0 47.9





#3

Chloromethane

Concen: 85.806 ug/l

RT: 1.230 min Scan# 59

Delta R.T. -0.000 min

Lab File: VV039140.D

Acq: 22 Sep 2025 13:49

Instrument :

MSVOA_V

ClientSampleId :

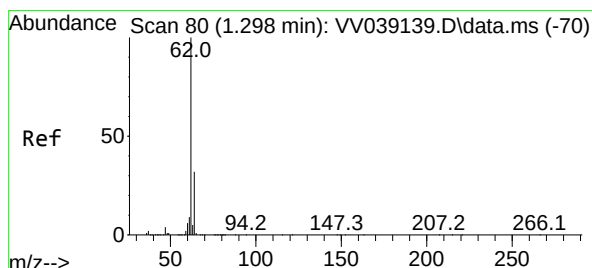
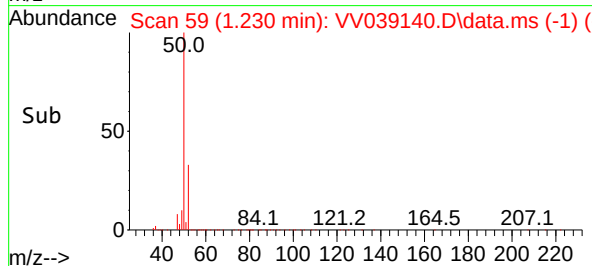
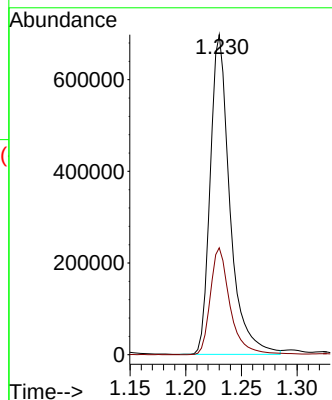
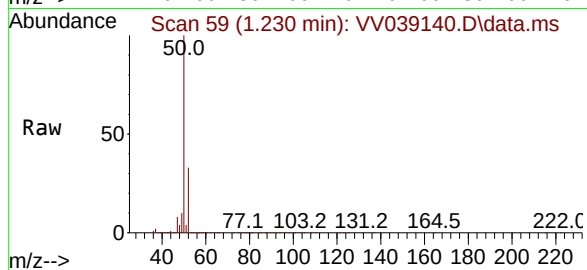
VSTDIC100

Tgt Ion: 50 Resp: 856347

Ion Ratio Lower Upper

50 100

52 33.4 26.0 39.0



#4

Vinyl Chloride

Concen: 88.044 ug/l

RT: 1.298 min Scan# 80

Delta R.T. -0.000 min

Lab File: VV039140.D

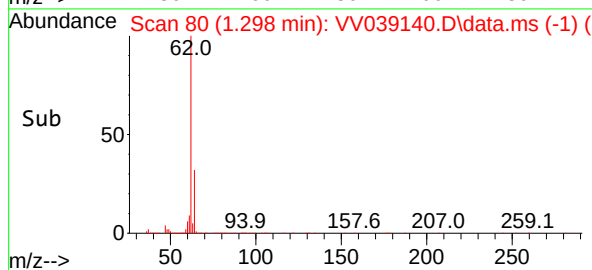
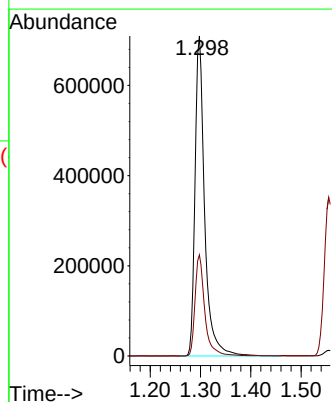
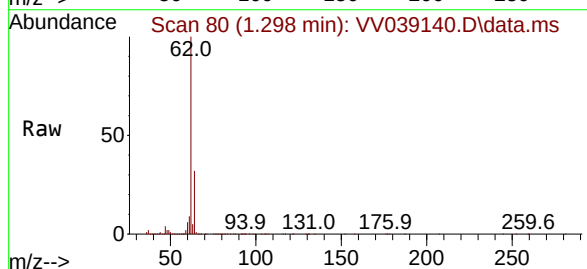
Acq: 22 Sep 2025 13:49

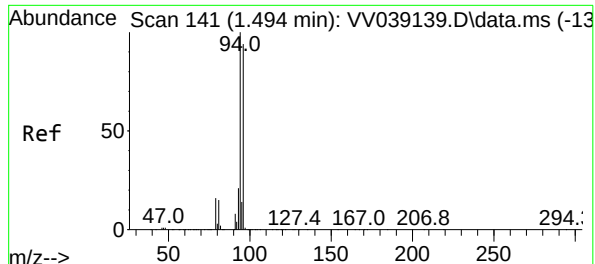
Tgt Ion: 62 Resp: 940694

Ion Ratio Lower Upper

62 100

64 31.6 25.6 38.4

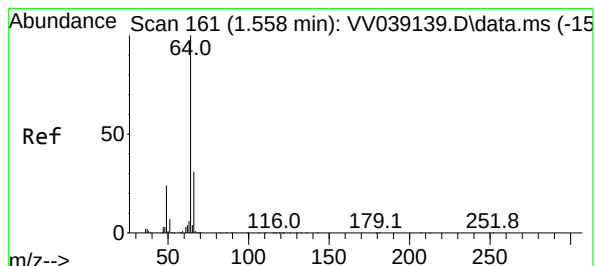
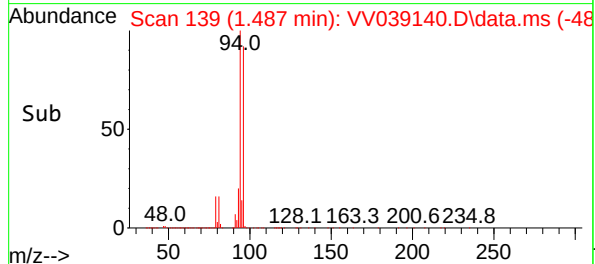
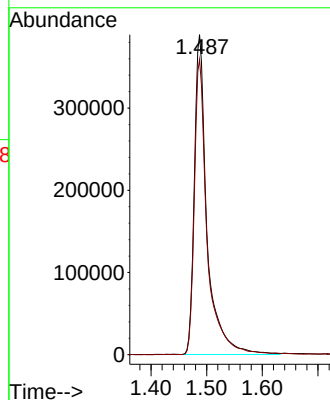
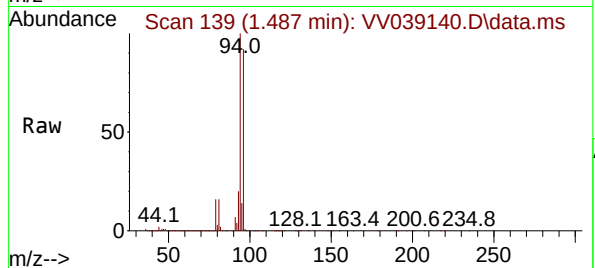




#5
Bromomethane
Concen: 91.446 ug/l
RT: 1.487 min Scan# 11
Delta R.T. -0.007 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

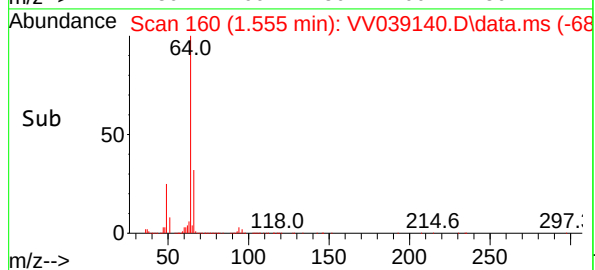
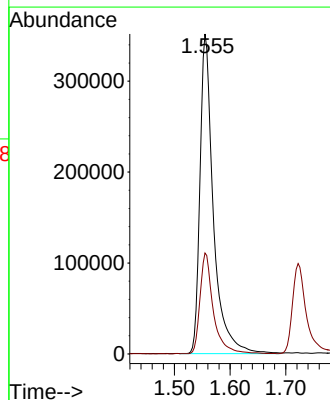
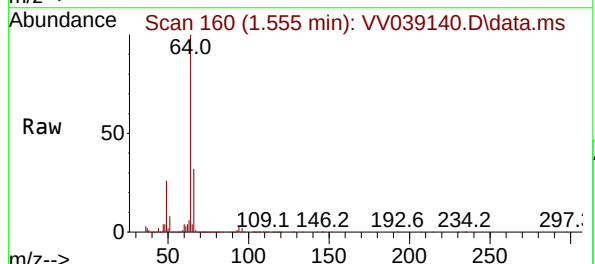
Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

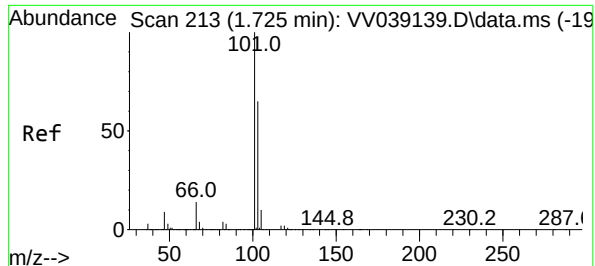
Tgt Ion: 94 Resp: 615924
Ion Ratio Lower Upper
94 100
96 92.3 74.9 112.3



#6
Chloroethane
Concen: 100.067 ug/l
RT: 1.555 min Scan# 160
Delta R.T. -0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 64 Resp: 587651
Ion Ratio Lower Upper
64 100
66 31.5 24.6 36.8

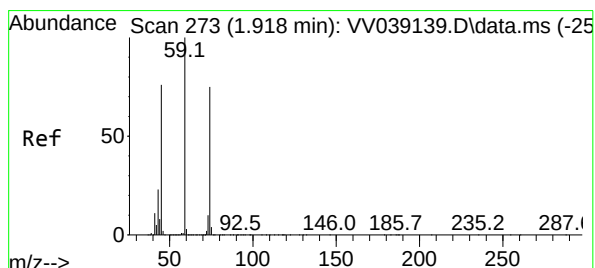
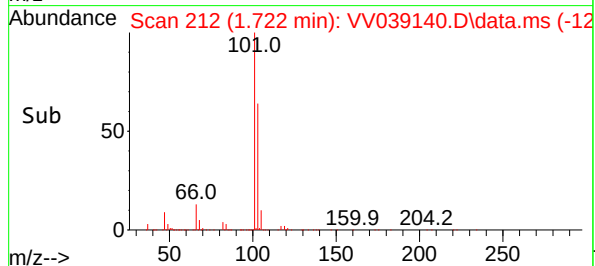
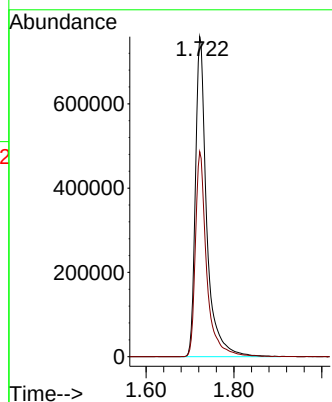
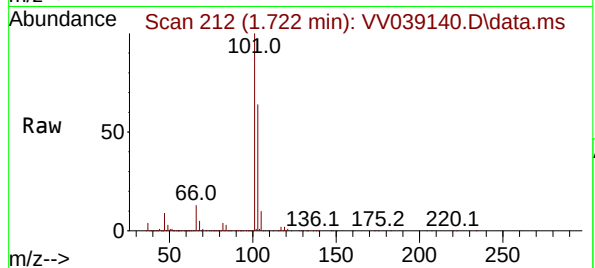




#7
Trichlorofluoromethane
Concen: 87.363 ug/l
RT: 1.722 min Scan# 213
Delta R.T. -0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

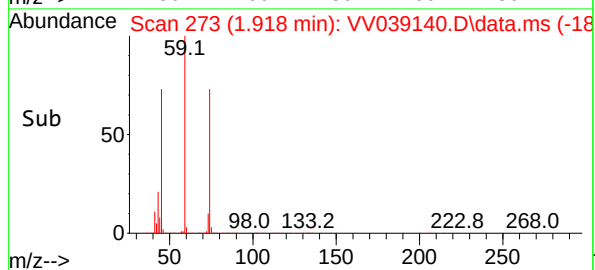
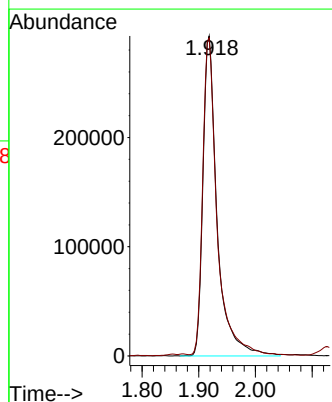
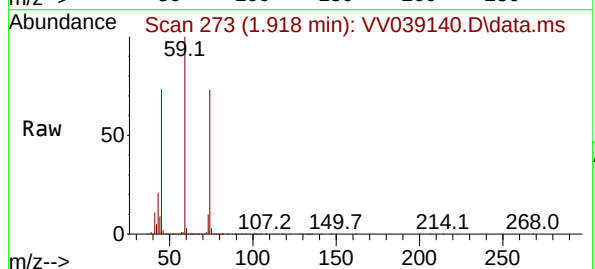
Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

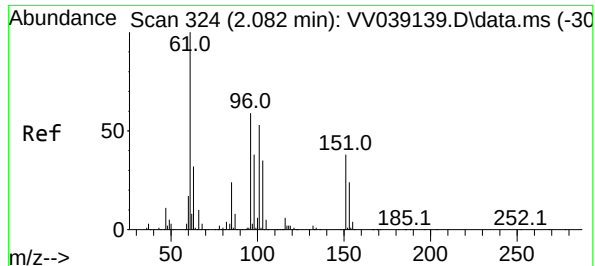
Tgt Ion:101 Resp: 1351410
Ion Ratio Lower Upper
101 100
103 64.0 52.0 78.0



#8
Diethyl Ether
Concen: 88.990 ug/l
RT: 1.918 min Scan# 273
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 74 Resp: 511033
Ion Ratio Lower Upper
74 100
45 98.8 49.6 148.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 87.593 ug/l

RT: 2.079 min Scan# 31

Delta R.T. -0.003 min

Lab File: VV039140.D

Acq: 22 Sep 2025 13:49

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC100

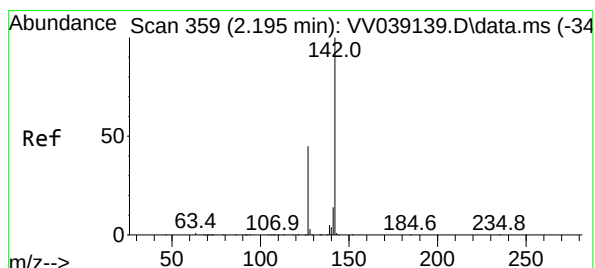
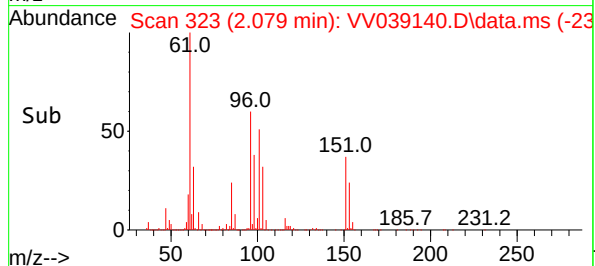
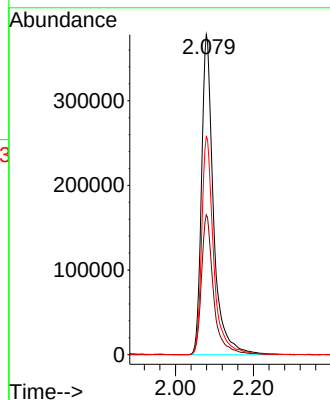
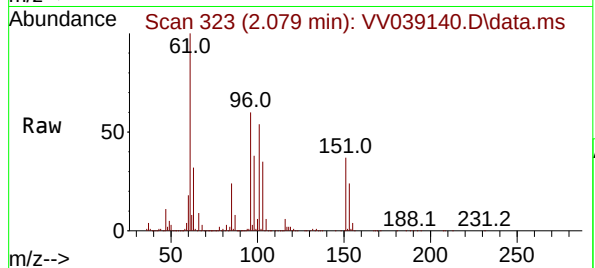
Tgt Ion:101 Resp: 806216

Ion Ratio Lower Upper

101 100

85 44.0 36.2 54.2

151 68.1 56.3 84.5



#10

Methyl Iodide

Concen: 106.294 ug/l

RT: 2.195 min Scan# 359

Delta R.T. -0.000 min

Lab File: VV039140.D

Acq: 22 Sep 2025 13:49

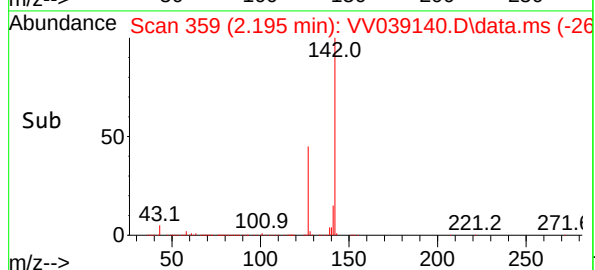
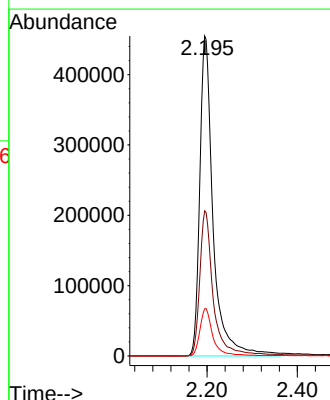
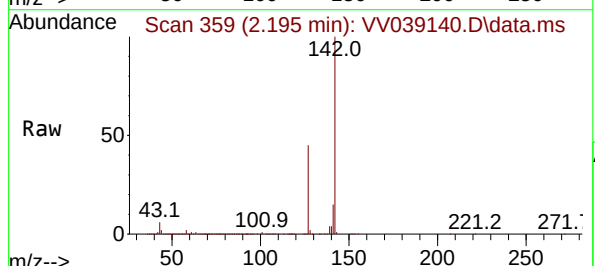
Tgt Ion:142 Resp: 931666

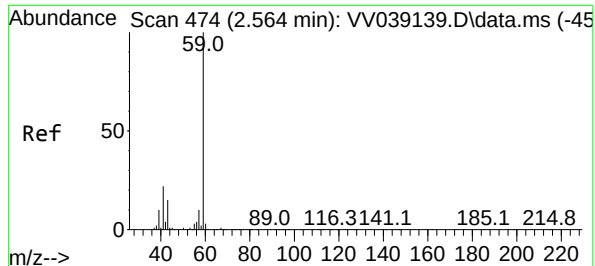
Ion Ratio Lower Upper

142 100

127 45.2 36.3 54.5

141 14.1 11.2 16.8





#11

Tert butyl alcohol

Concen: 444.608 ug/l

RT: 2.574 min Scan# 41

Delta R.T. 0.010 min

Lab File: VV039140.D

Acq: 22 Sep 2025 13:49

Instrument :

MSVOA_V

ClientSampleId :

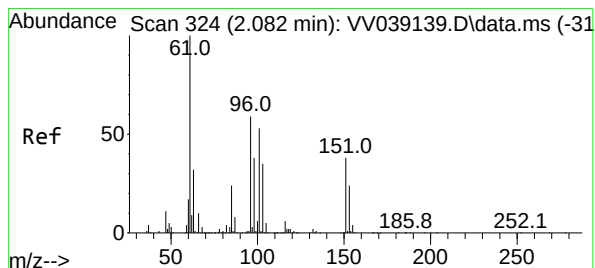
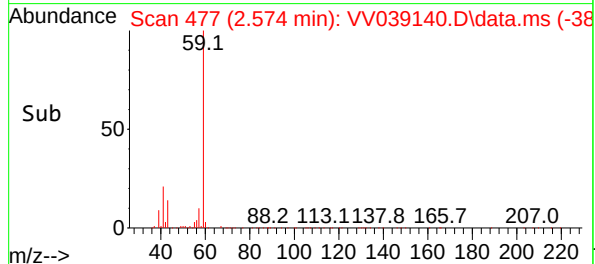
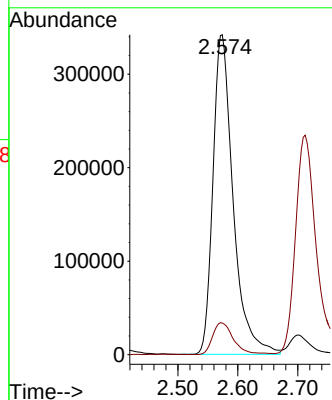
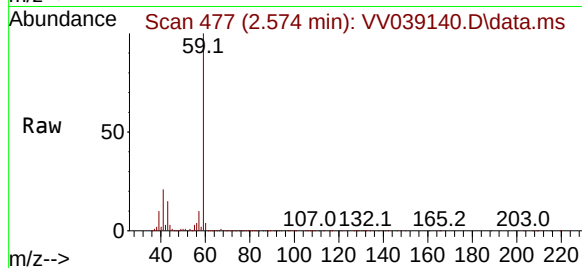
VSTDIC100

Tgt Ion: 59 Resp: 798702

Ion Ratio Lower Upper

59 100

57 10.2 7.8 11.8



#12

1,1-Dichloroethene

Concen: 87.914 ug/l

RT: 2.079 min Scan# 323

Delta R.T. -0.003 min

Lab File: VV039140.D

Acq: 22 Sep 2025 13:49

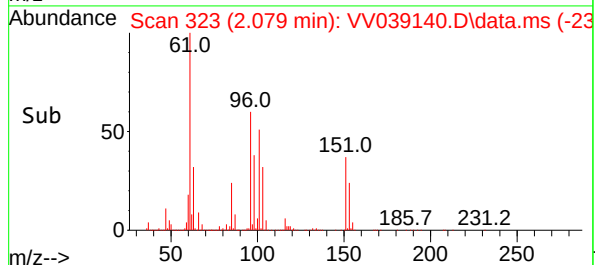
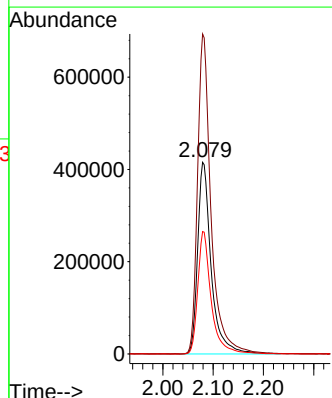
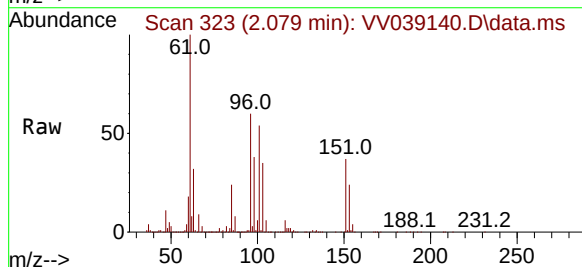
Tgt Ion: 96 Resp: 778436

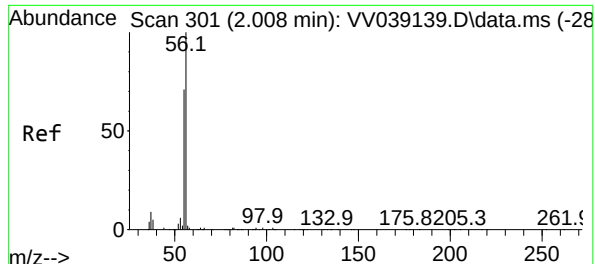
Ion Ratio Lower Upper

96 100

61 167.1 136.0 204.0

98 63.9 51.0 76.6





#13

Acrolein

Concen: 515.691 ug/l

RT: 2.008 min Scan# 301

Delta R.T. -0.000 min

Lab File: VV039140.D

Acq: 22 Sep 2025 13:49

Instrument :

MSVOA_V

ClientSampleId :

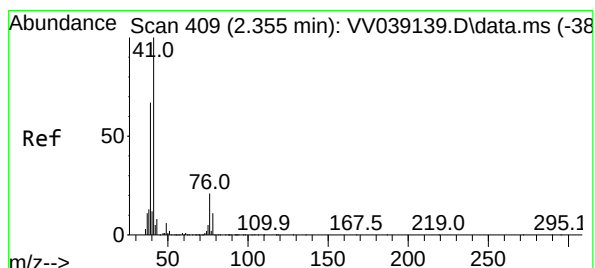
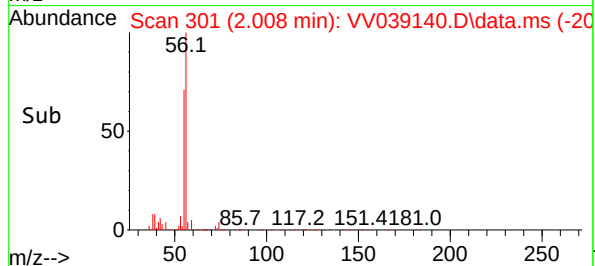
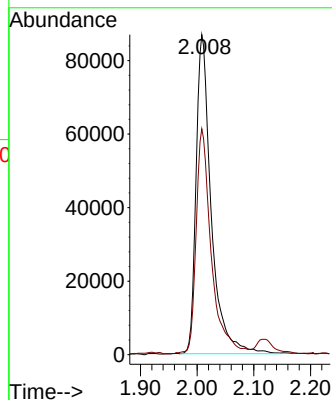
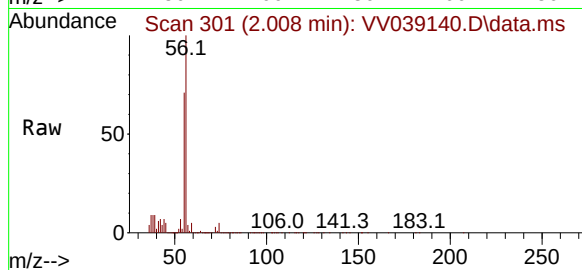
VSTDICC100

Tgt Ion: 56 Resp: 160749

Ion Ratio Lower Upper

56 100

55 70.8 56.2 84.4



#14

Allyl chloride

Concen: 89.708 ug/l

RT: 2.355 min Scan# 409

Delta R.T. -0.000 min

Lab File: VV039140.D

Acq: 22 Sep 2025 13:49

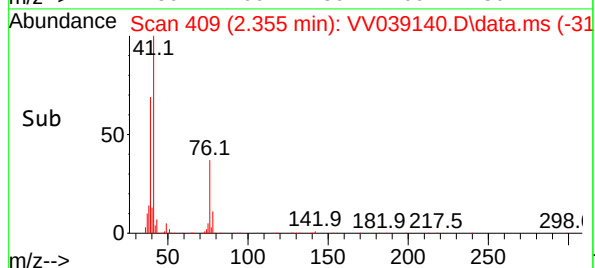
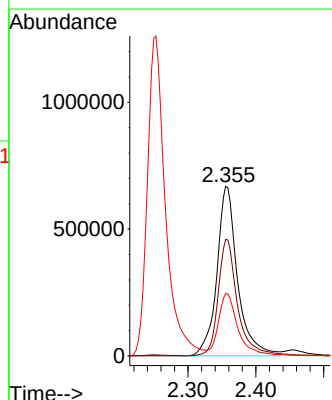
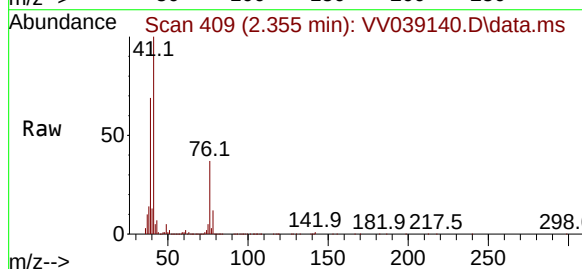
Tgt Ion: 41 Resp: 1418889

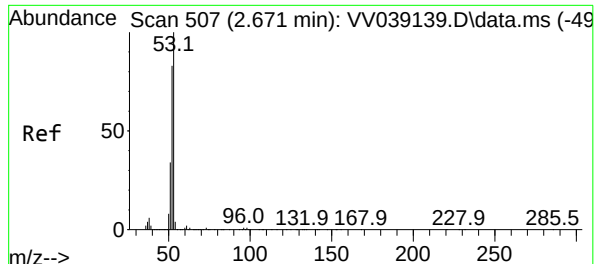
Ion Ratio Lower Upper

41 100

39 64.7 51.0 76.6

76 35.0 28.2 42.4





#15

Acrylonitrile

Concen: 435.771 ug/l

RT: 2.674 min Scan# 507

Delta R.T. 0.003 min

Lab File: VV039140.D

Acq: 22 Sep 2025 13:49

Instrument :

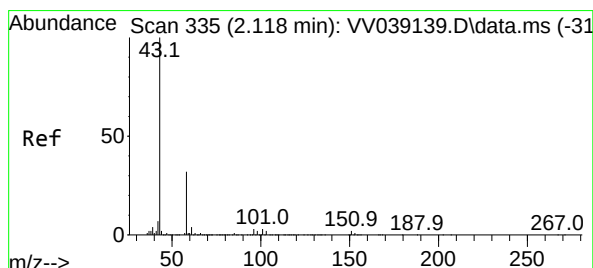
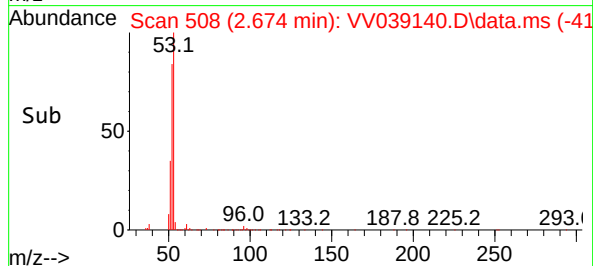
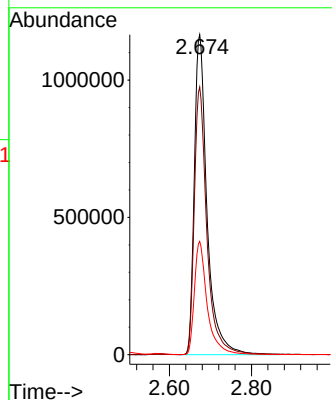
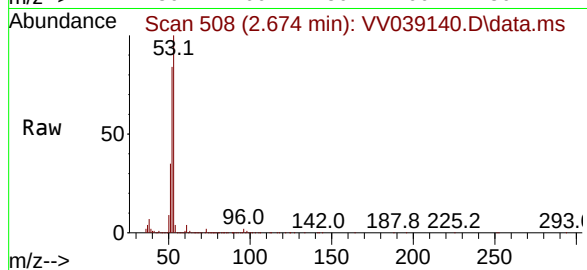
MSVOA_V

ClientSampleId :

VSTDIC100

Tgt Ion: 53 Resp: 2509475

Ion	Ratio	Lower	Upper
53	100		
52	82.7	66.1	99.1
51	35.6	28.5	42.7



#16

Acetone

Concen: 499.795 ug/l

RT: 2.118 min Scan# 335

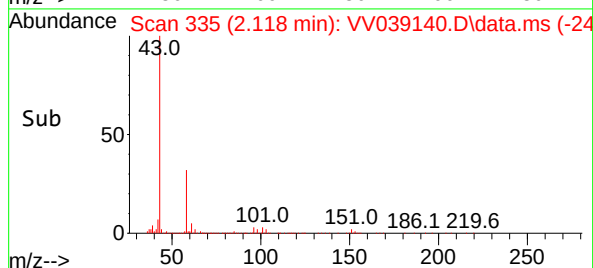
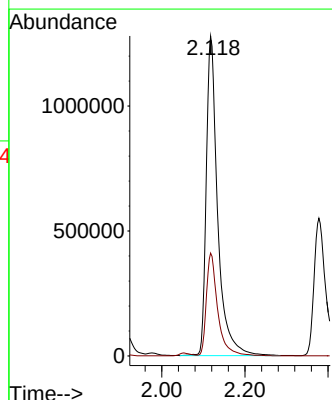
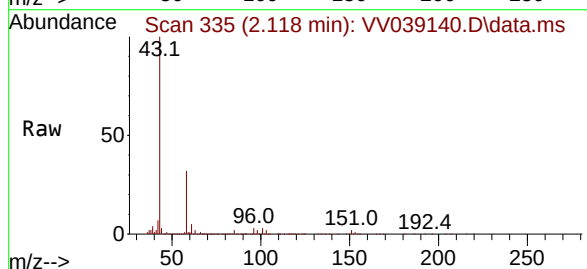
Delta R.T. -0.000 min

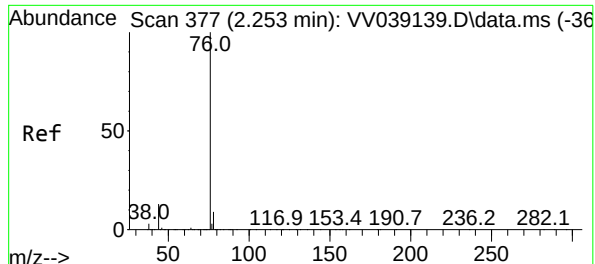
Lab File: VV039140.D

Acq: 22 Sep 2025 13:49

Tgt Ion: 43 Resp: 2432444

Ion	Ratio	Lower	Upper
43	100		
58	32.1	25.8	38.6





#17

Carbon Disulfide

Concen: 86.125 ug/l

RT: 2.253 min Scan# 31

Delta R.T. -0.000 min

Lab File: VV039140.D

Acq: 22 Sep 2025 13:49

Instrument :

MSVOA_V

ClientSampleId :

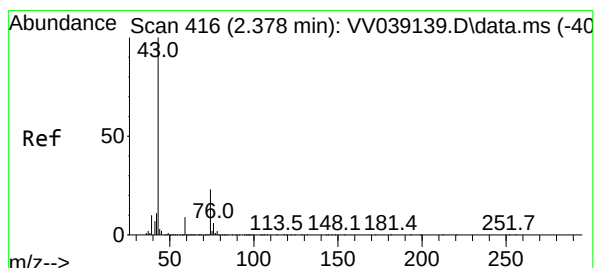
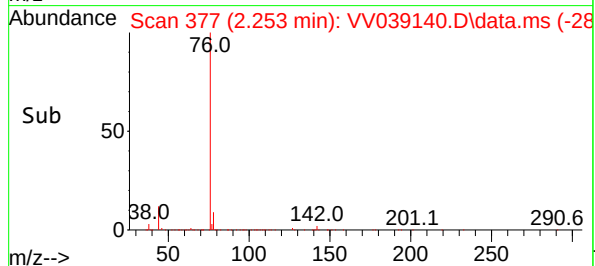
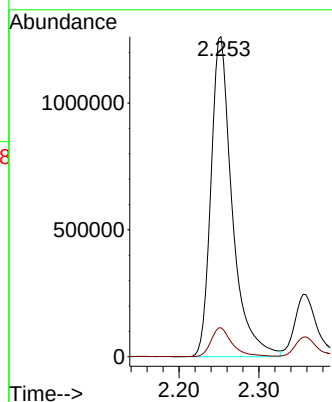
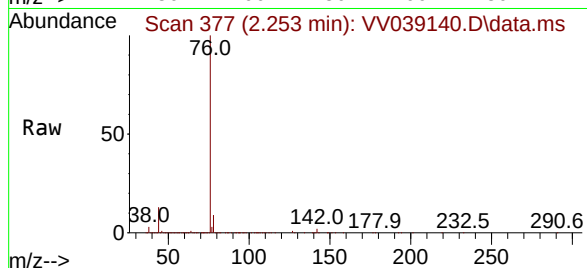
VSTDICC100

Tgt Ion: 76 Resp: 2332239

Ion Ratio Lower Upper

76 100

78 9.0 7.4 11.0



#18

Methyl Acetate

Concen: 90.753 ug/l

RT: 2.378 min Scan# 416

Delta R.T. -0.000 min

Lab File: VV039140.D

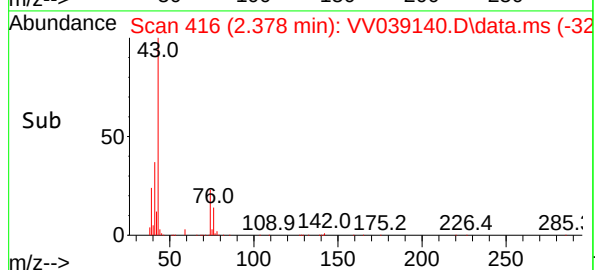
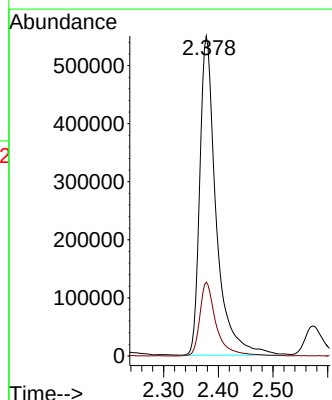
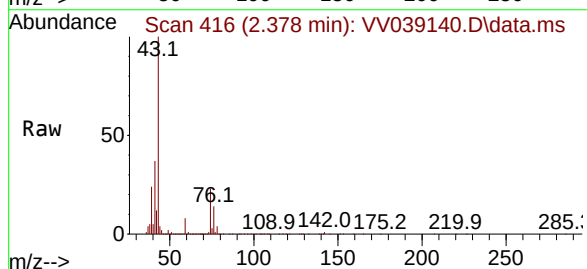
Acq: 22 Sep 2025 13:49

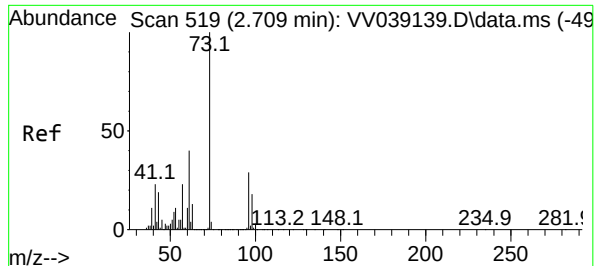
Tgt Ion: 43 Resp: 1142900

Ion Ratio Lower Upper

43 100

74 23.2 18.6 27.8





#19

Methyl tert-butyl Ether

Concen: 91.667 ug/l

RT: 2.712 min Scan# 519

Delta R.T. 0.003 min

Lab File: VV039140.D

Acq: 22 Sep 2025 13:49

Instrument :

MSVOA_V

ClientSampleId :

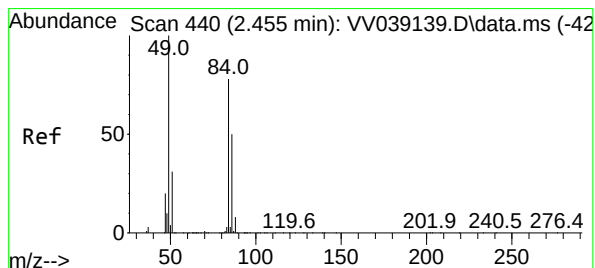
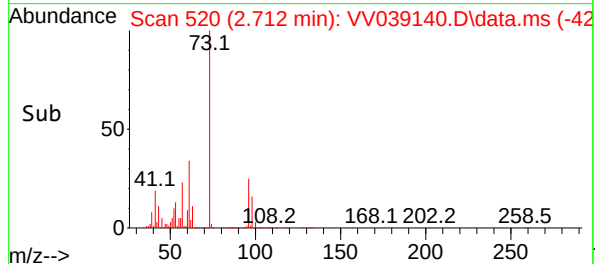
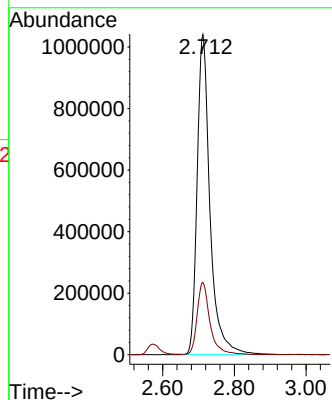
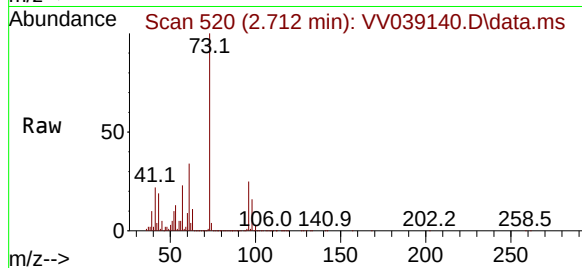
VSTDICC100

Tgt Ion: 73 Resp: 2586428

Ion Ratio Lower Upper

73 100

57 22.6 18.2 27.4



#20

Methylene Chloride

Concen: 100.038 ug/l

RT: 2.455 min Scan# 440

Delta R.T. 0.000 min

Lab File: VV039140.D

Acq: 22 Sep 2025 13:49

Tgt Ion: 84 Resp: 870955

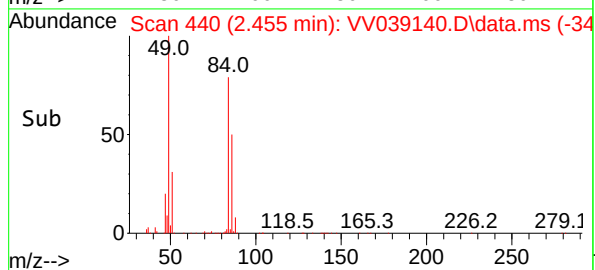
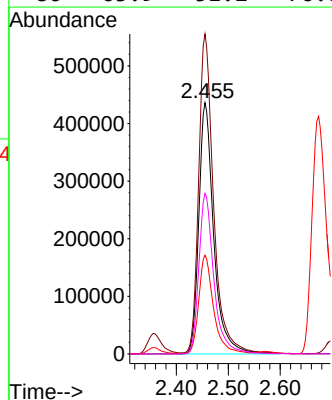
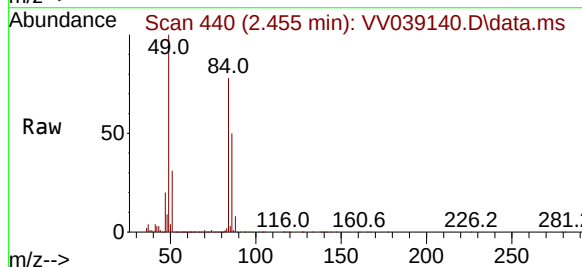
Ion Ratio Lower Upper

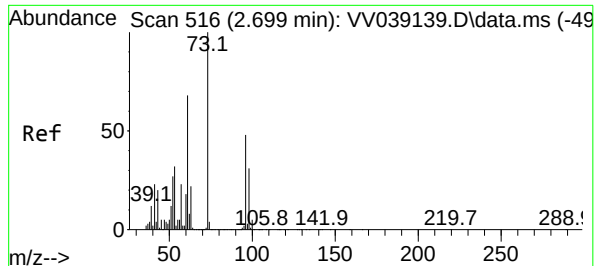
84 100

49 127.1 102.8 154.2

51 39.2 31.9 47.9

86 63.9 51.2 76.8

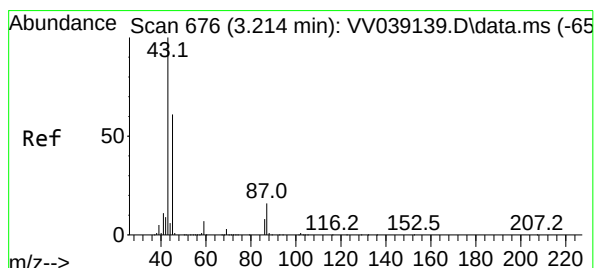
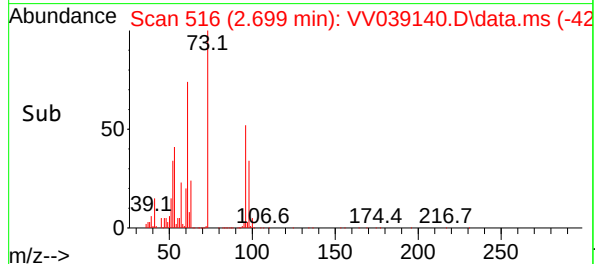
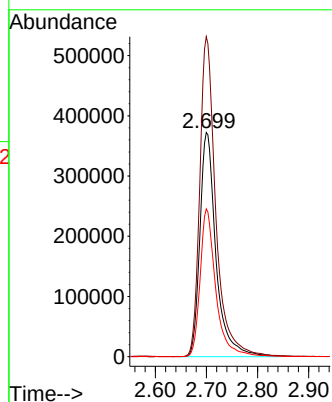
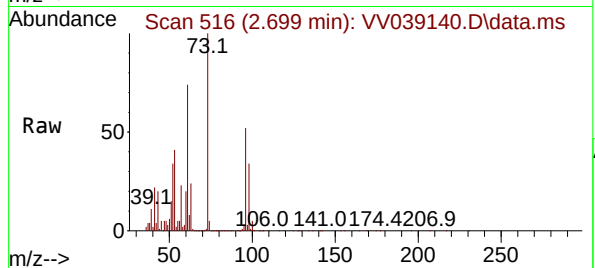




#21
trans-1,2-Dichloroethene
Concen: 86.701 ug/l
RT: 2.699 min Scan# 516
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

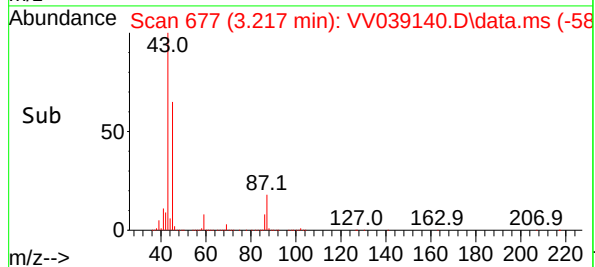
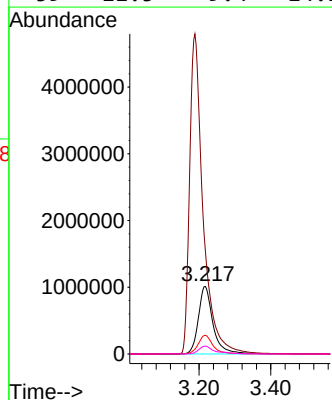
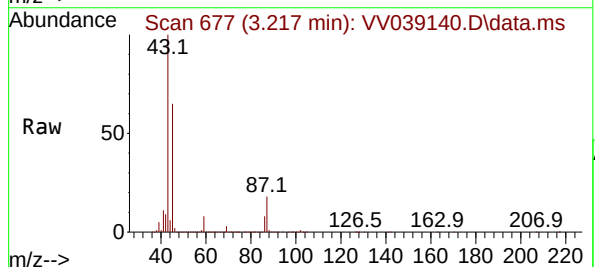
Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

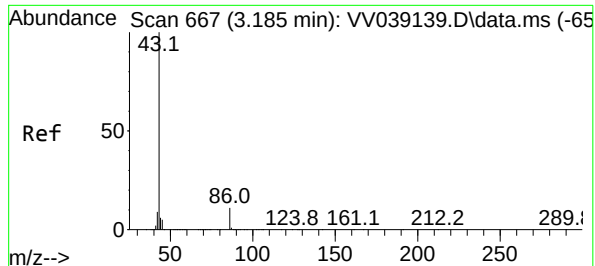
Tgt Ion: 96 Resp: 817275
Ion Ratio Lower Upper
96 100
61 142.7 112.8 169.2
98 65.9 51.1 76.7



#22
Diisopropyl ether
Concen: 94.428 ug/l
RT: 3.217 min Scan# 677
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 45 Resp: 2857568
Ion Ratio Lower Upper
45 100
43 153.6 130.9 196.3
87 27.6 21.1 31.7
59 11.5 9.4 14.2





#23

Vinyl Acetate

Concen: 472.148 ug/l

RT: 3.188 min Scan# 6

Delta R.T. 0.003 min

Lab File: VV039140.D

Acq: 22 Sep 2025 13:49

Instrument :

MSVOA_V

ClientSampleId :

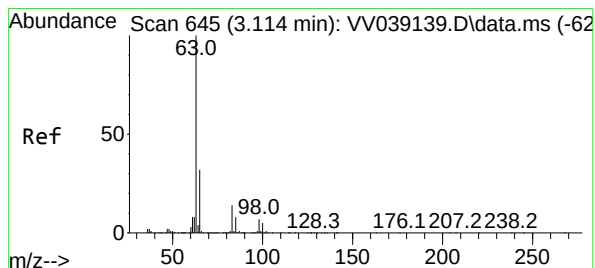
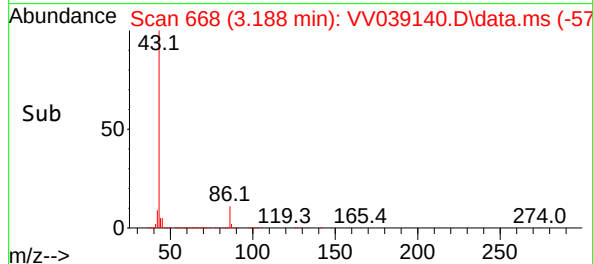
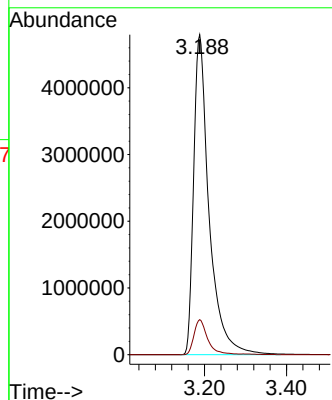
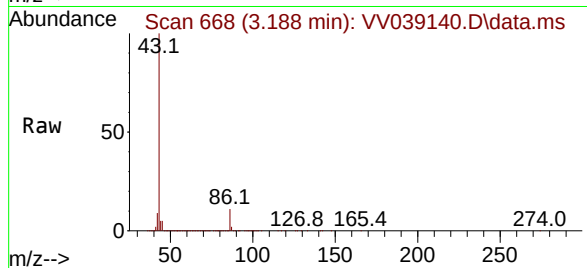
VSTDIC100

Tgt Ion: 43 Resp:12498986

Ion Ratio Lower Upper

43 100

86 10.9 8.4 12.6



#24

1,1-Dichloroethane

Concen: 84.338 ug/l

RT: 3.117 min Scan# 646

Delta R.T. 0.003 min

Lab File: VV039140.D

Acq: 22 Sep 2025 13:49

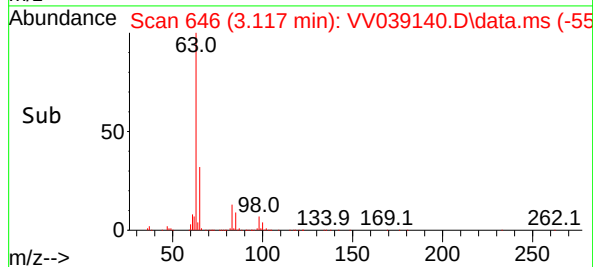
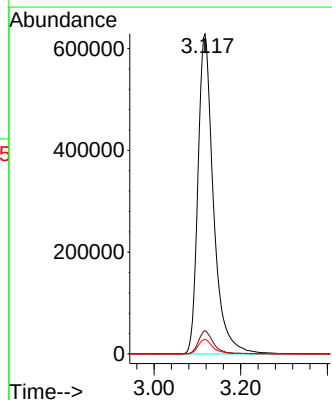
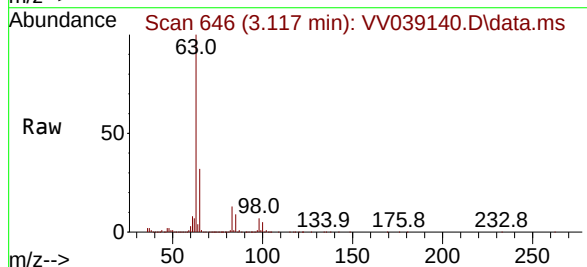
Tgt Ion: 63 Resp: 1560774

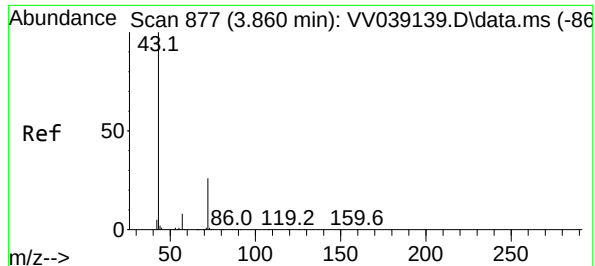
Ion Ratio Lower Upper

63 100

98 7.3 3.4 10.2

100 4.5 2.2 6.6





#25

2-Butanone

Concen: 508.801 ug/l

RT: 3.863 min Scan# 81

Delta R.T. 0.003 min

Lab File: VV039140.D

Acq: 22 Sep 2025 13:49

Instrument :

MSVOA_V

ClientSampleId :

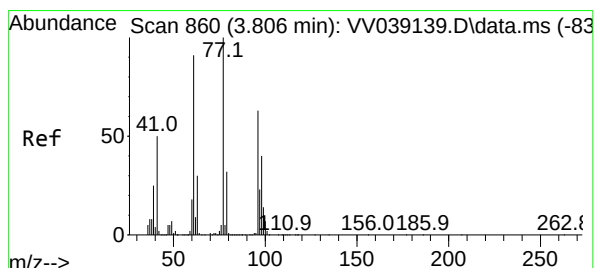
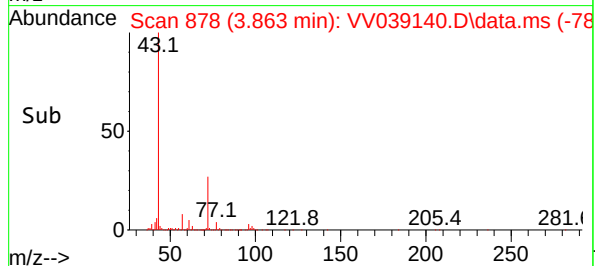
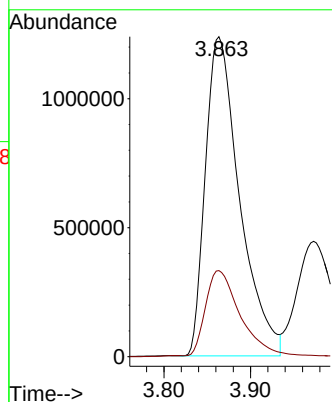
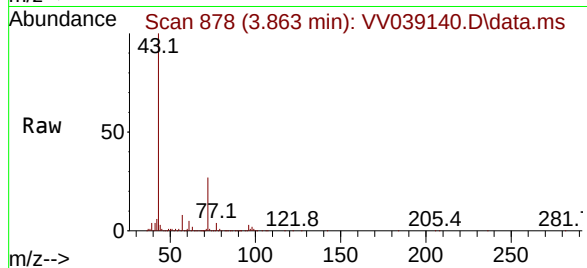
VSTDIC100

Tgt Ion: 43 Resp: 3404031

Ion Ratio Lower Upper

43 100

72 26.6 21.0 31.6



#26

2,2-Dichloropropane

Concen: 86.559 ug/l

RT: 3.812 min Scan# 862

Delta R.T. 0.006 min

Lab File: VV039140.D

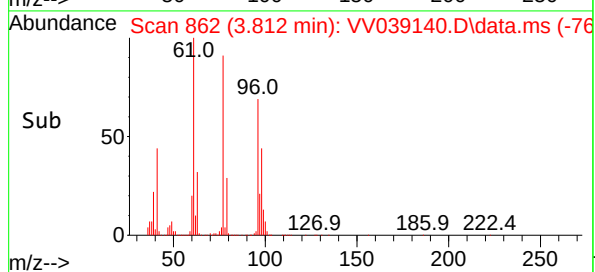
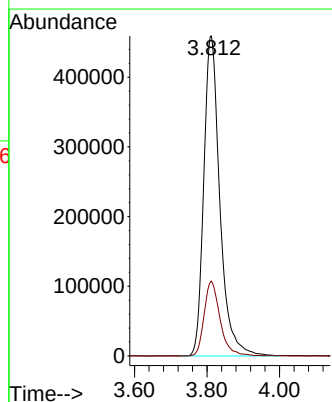
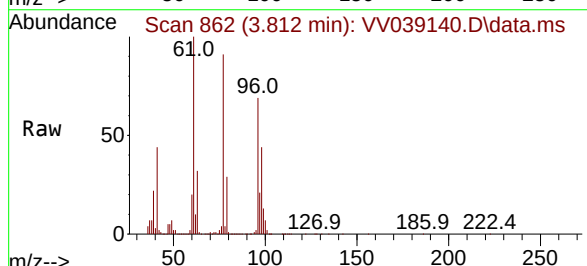
Acq: 22 Sep 2025 13:49

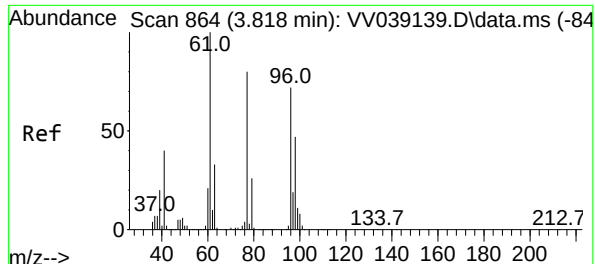
Tgt Ion: 77 Resp: 1414724

Ion Ratio Lower Upper

77 100

97 23.2 11.6 34.7





#27

cis-1,2-Dichloroethene

Concen: 97.210 ug/l

RT: 3.818 min Scan# 864

Delta R.T. -0.000 min

Lab File: VV039140.D

Acq: 22 Sep 2025 13:49

Instrument :

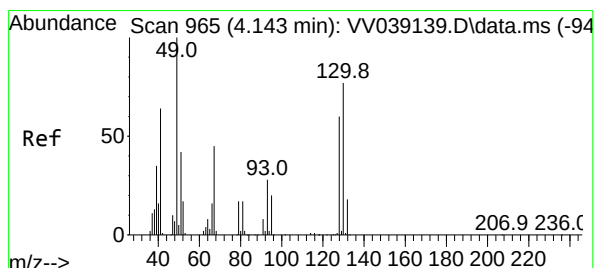
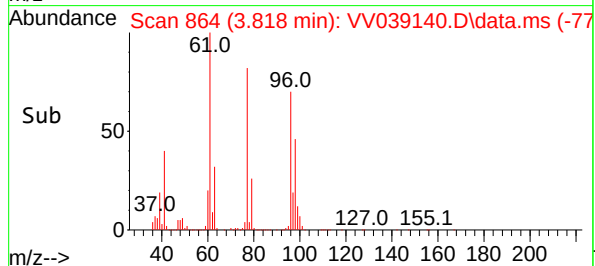
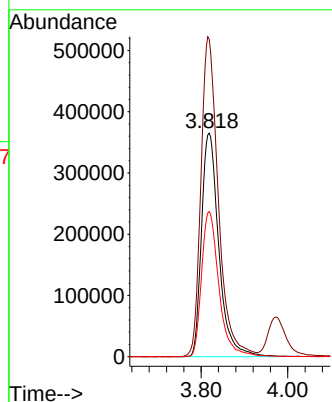
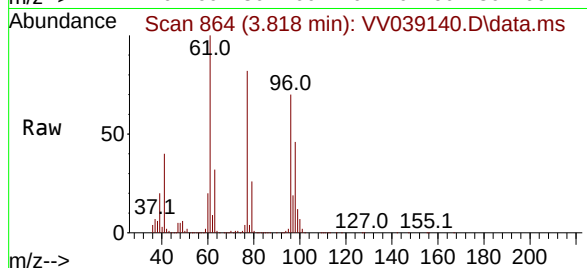
MSVOA_V

ClientSampleId :

VSTDIC100

Tgt Ion: 96 Resp: 1010617

Ion	Ratio	Lower	Upper
96	100		
61	144.0	0.0	286.4
98	64.9	0.0	126.6



#28

Bromochloromethane

Concen: 91.624 ug/l

RT: 4.146 min Scan# 966

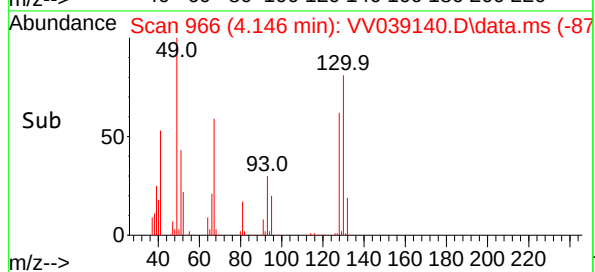
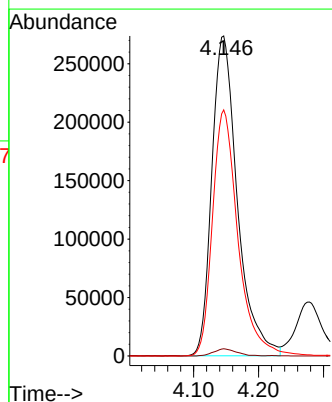
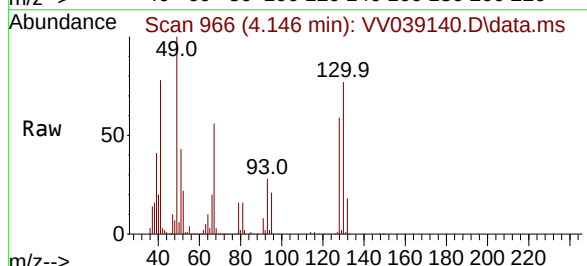
Delta R.T. 0.003 min

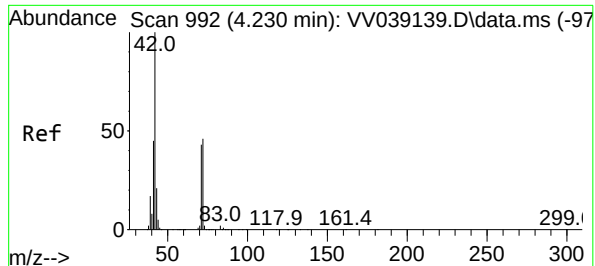
Lab File: VV039140.D

Acq: 22 Sep 2025 13:49

Tgt Ion: 49 Resp: 748549

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	4.2
130	76.8	60.2	90.2





#29

Tetrahydrofuran

Concen: 516.116 ug/l

RT: 4.233 min Scan# 992

Delta R.T. 0.003 min

Lab File: VV039140.D

Acq: 22 Sep 2025 13:49

Instrument :

MSVOA_V

ClientSampleId :

VSTDICC100

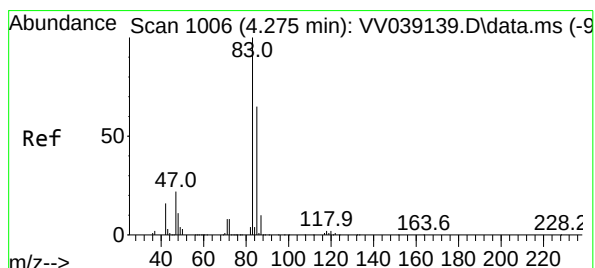
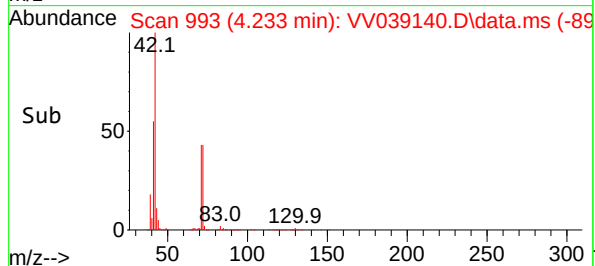
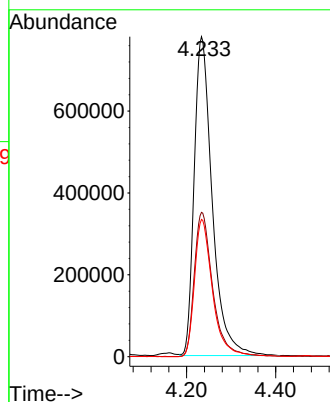
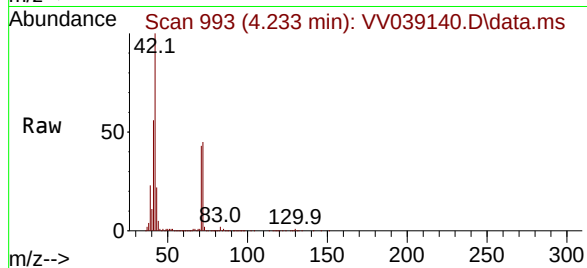
Tgt Ion: 42 Resp: 2198745

Ion Ratio Lower Upper

42 100

72 46.2 36.3 54.5

71 43.0 34.3 51.5



#30

Chloroform

Concen: 87.087 ug/l

RT: 4.278 min Scan# 1007

Delta R.T. 0.003 min

Lab File: VV039140.D

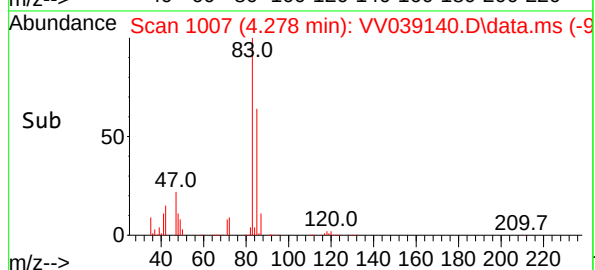
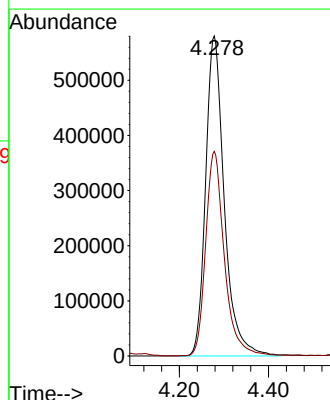
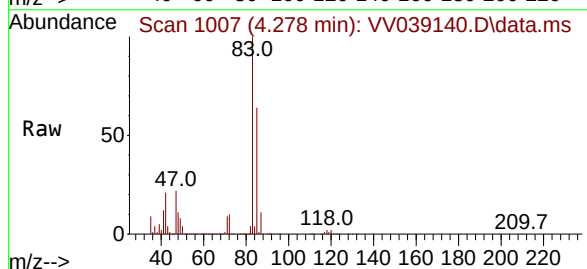
Acq: 22 Sep 2025 13:49

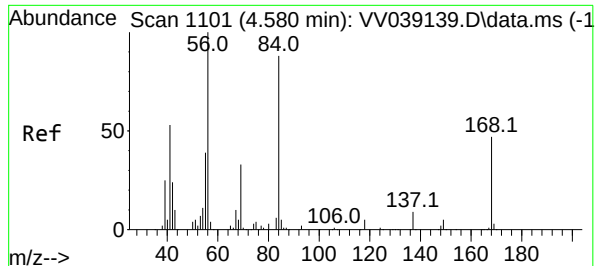
Tgt Ion: 83 Resp: 1682895

Ion Ratio Lower Upper

83 100

85 63.9 52.1 78.1





#31

Cyclohexane

Concen: 97.182 ug/l

RT: 4.580 min Scan# 1101

Delta R.T. -0.000 min

Lab File: VV039140.D

Acq: 22 Sep 2025 13:49

Instrument :

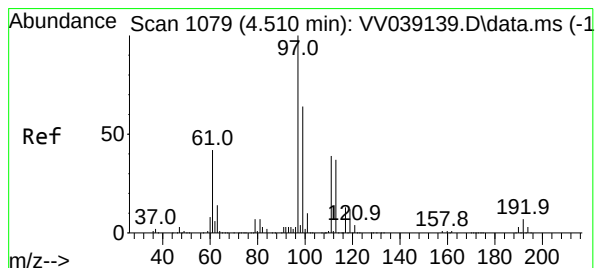
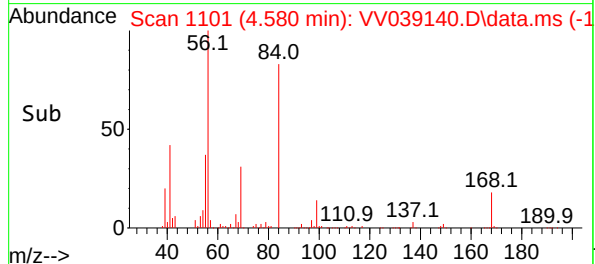
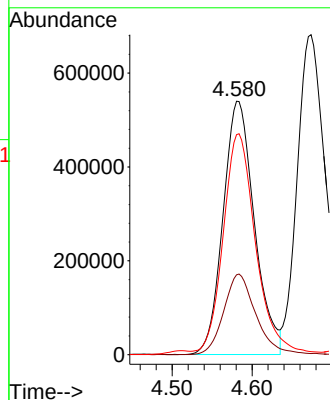
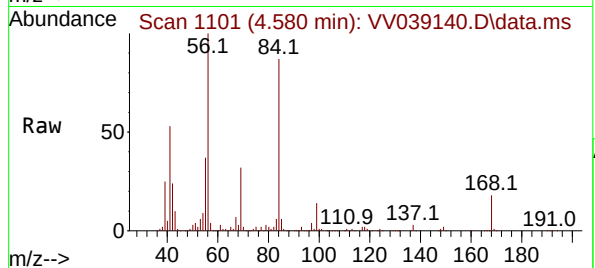
MSVOA_V

ClientSampleId :

VSTDIC100

Tgt Ion: 56 Resp: 1473260

Ion	Ratio	Lower	Upper
56	100		
69	31.5	26.2	39.2
84	85.3	70.3	105.5



#32

1,1,1-Trichloroethane

Concen: 88.700 ug/l

RT: 4.513 min Scan# 1080

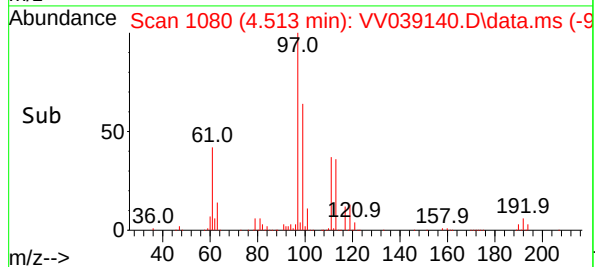
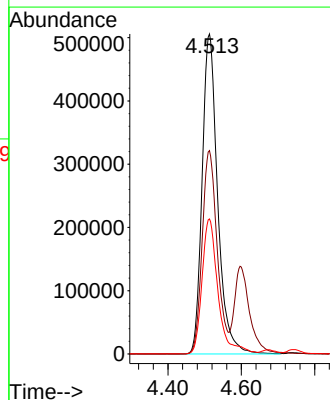
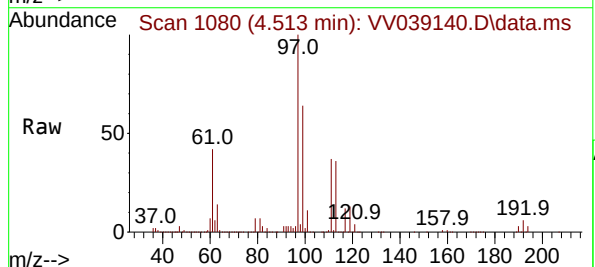
Delta R.T. 0.003 min

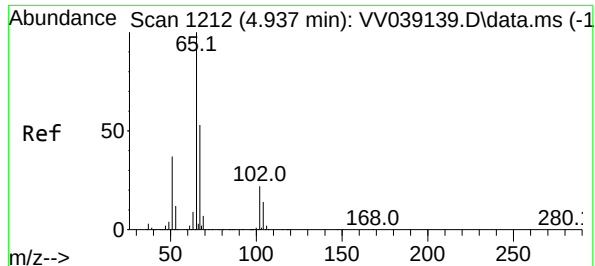
Lab File: VV039140.D

Acq: 22 Sep 2025 13:49

Tgt Ion: 97 Resp: 1483938

Ion	Ratio	Lower	Upper
97	100		
99	61.3	49.6	74.4
61	43.5	34.5	51.7





#33

1,2-Dichloroethane-d4

Concen: 85.362 ug/l

RT: 4.941 min Scan# 1212

Delta R.T. 0.003 min

Lab File: VV039140.D

Acq: 22 Sep 2025 13:49

Instrument :

MSVOA_V

ClientSampleId :

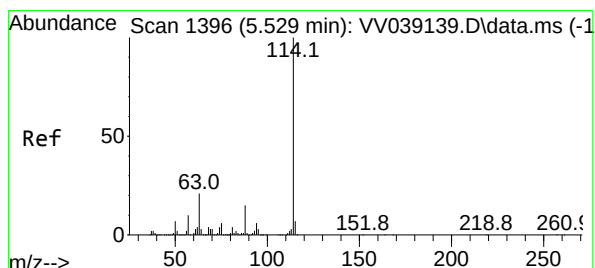
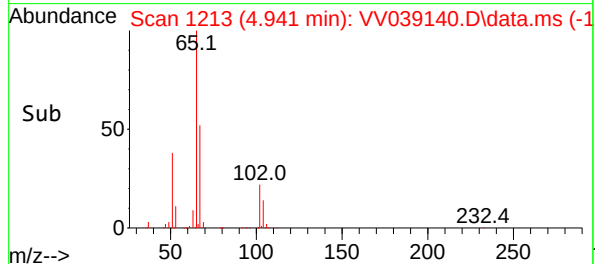
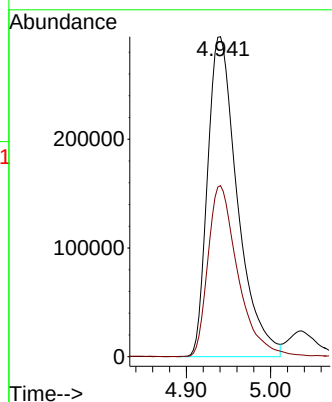
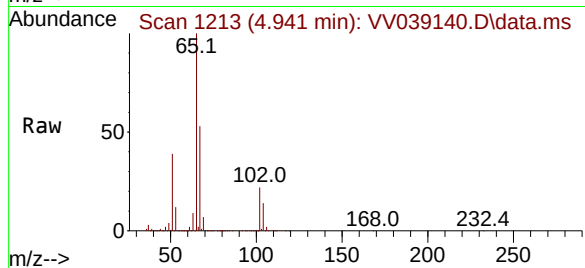
VSTDIC100

Tgt Ion: 65 Resp: 725543

Ion Ratio Lower Upper

65 100

67 53.7 0.0 107.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.532 min Scan# 1397

Delta R.T. 0.003 min

Lab File: VV039140.D

Acq: 22 Sep 2025 13:49

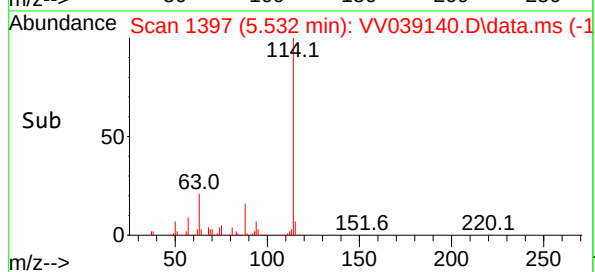
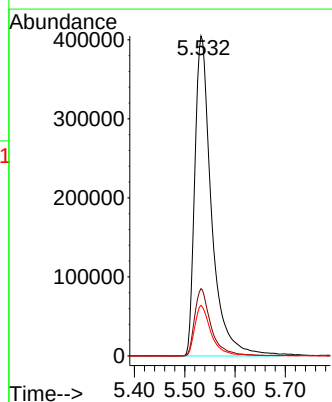
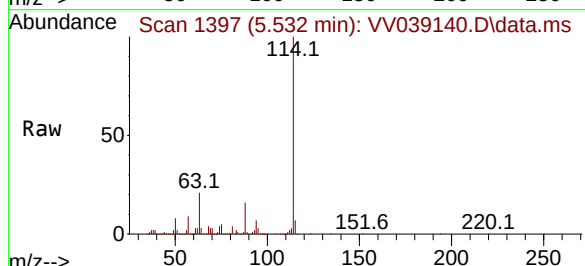
Tgt Ion: 114 Resp: 935392

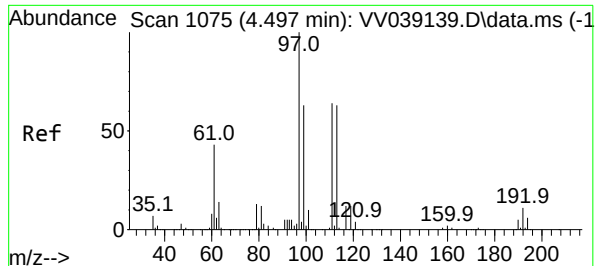
Ion Ratio Lower Upper

114 100

63 21.0 0.0 42.6

88 15.8 0.0 30.8





#35

Dibromofluoromethane

Concen: 89.684 ug/l

RT: 4.500 min Scan# 1107

Delta R.T. 0.003 min

Lab File: VV039140.D

Acq: 22 Sep 2025 13:49

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC100

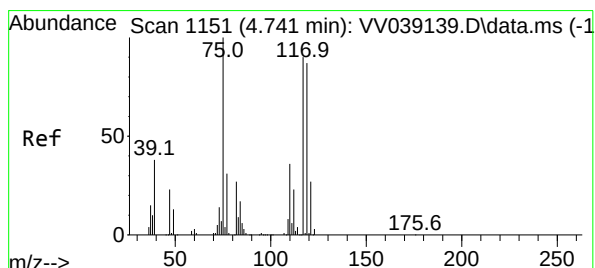
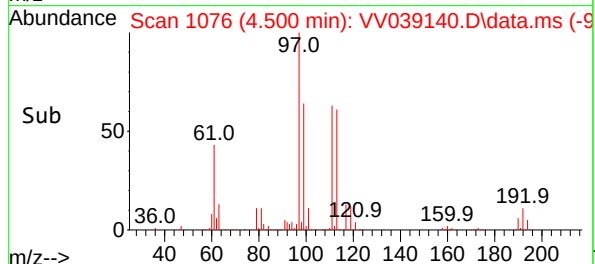
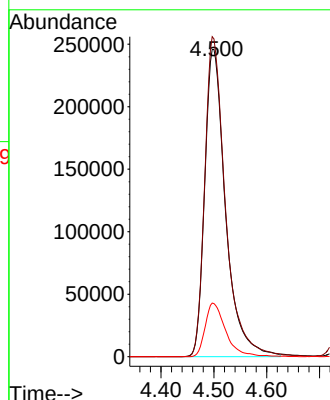
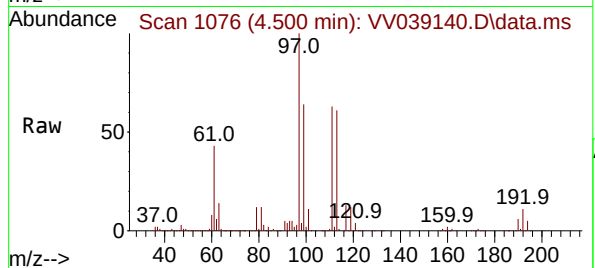
Tgt Ion:113 Resp: 674408

Ion Ratio Lower Upper

113 100

111 102.8 82.4 123.6

192 17.0 13.8 20.8



#36

1,1-Dichloropropene

Concen: 99.944 ug/l

RT: 4.741 min Scan# 1151

Delta R.T. 0.000 min

Lab File: VV039140.D

Acq: 22 Sep 2025 13:49

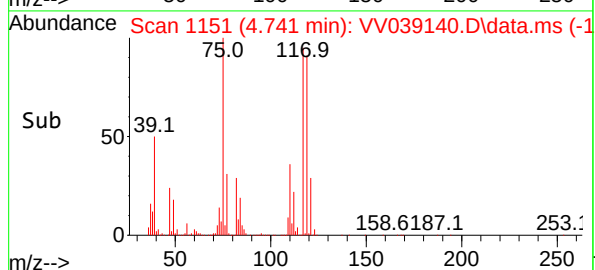
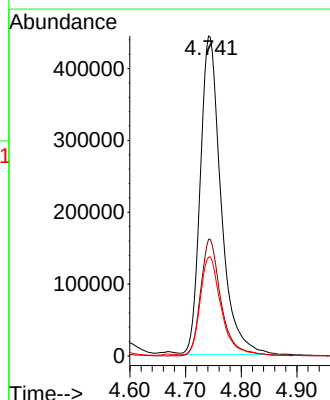
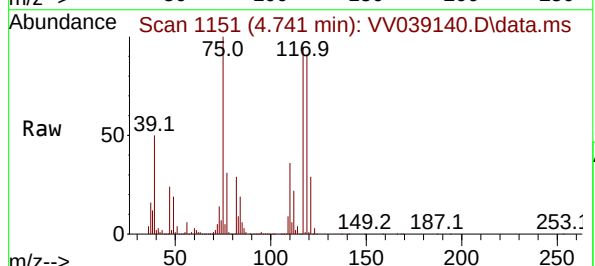
Tgt Ion: 75 Resp: 1144520

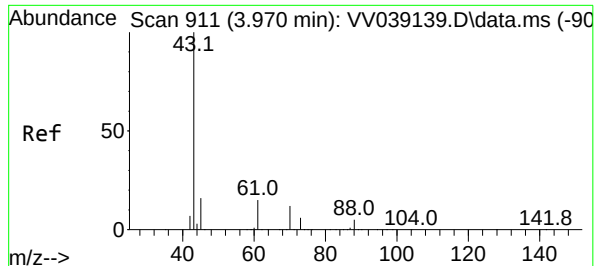
Ion Ratio Lower Upper

75 100

110 36.3 18.1 54.1

77 31.3 24.8 37.2





#37

Ethyl Acetate

Concen: 94.580 ug/l

RT: 3.973 min Scan# 911

Delta R.T. 0.003 min

Lab File: VV039140.D

Acq: 22 Sep 2025 13:49

Instrument :

MSVOA_V

ClientSampleId :

VSTDICC100

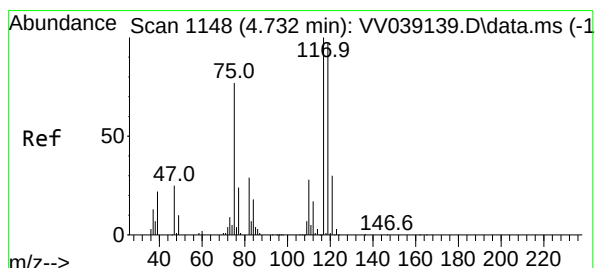
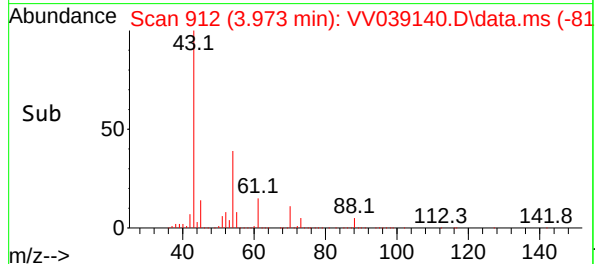
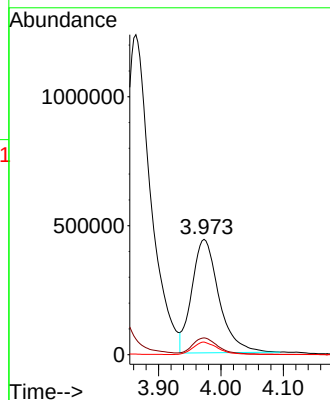
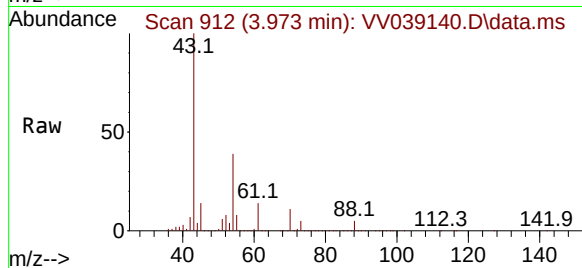
Tgt Ion: 43 Resp: 1328655

Ion Ratio Lower Upper

43 100

61 14.0 10.3 15.5

70 10.0 8.0 12.0



#38

Carbon Tetrachloride

Concen: 91.566 ug/l

RT: 4.735 min Scan# 1149

Delta R.T. 0.003 min

Lab File: VV039140.D

Acq: 22 Sep 2025 13:49

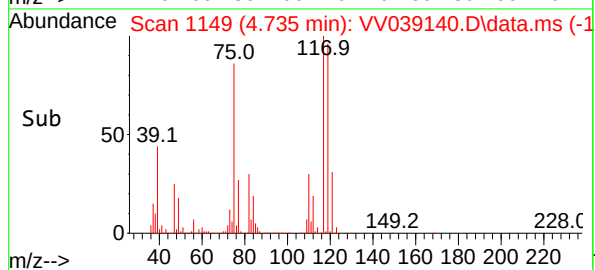
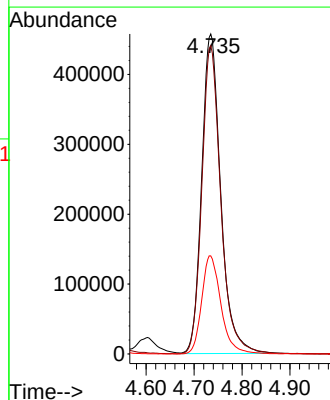
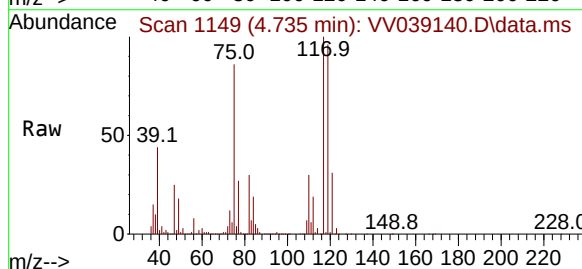
Tgt Ion: 117 Resp: 1263028

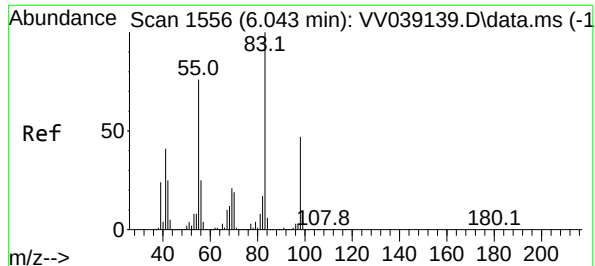
Ion Ratio Lower Upper

117 100

119 96.4 77.2 115.8

121 30.7 24.2 36.2





#39

Methylcyclohexane

Concen: 116.766 ug/l

RT: 6.047 min Scan# 1

Delta R.T. 0.004 min

Lab File: VV039140.D

Acq: 22 Sep 2025 13:49

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC100

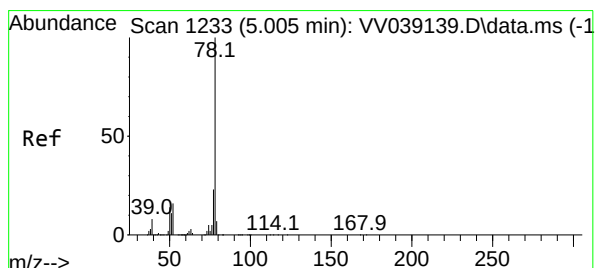
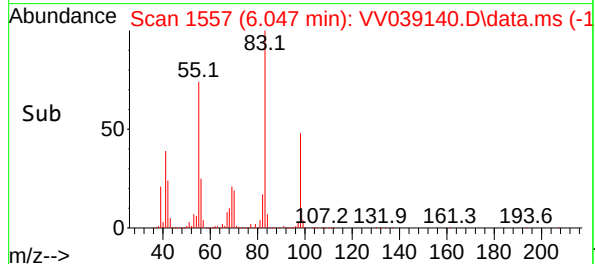
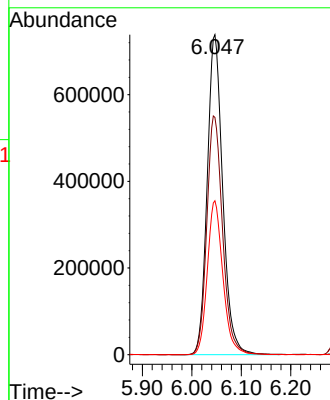
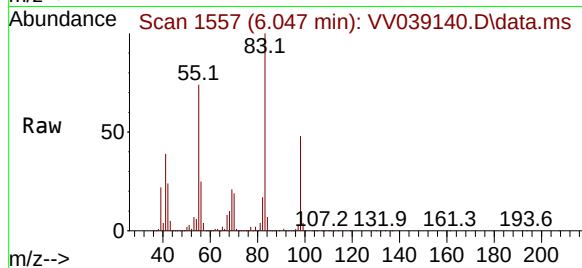
Tgt Ion: 83 Resp: 1603169

Ion Ratio Lower Upper

83 100

55 74.1 60.5 90.7

98 48.1 37.8 56.6



#40

Benzene

Concen: 97.560 ug/l

RT: 5.008 min Scan# 1234

Delta R.T. 0.003 min

Lab File: VV039140.D

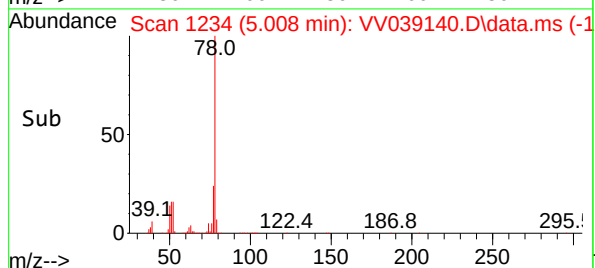
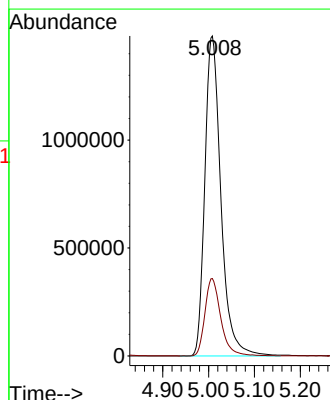
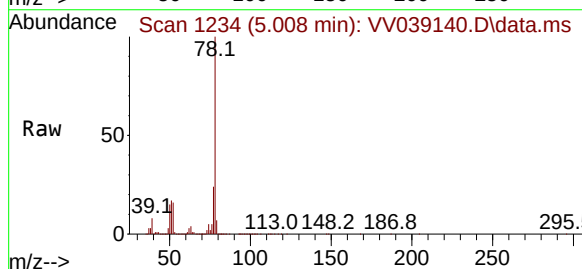
Acq: 22 Sep 2025 13:49

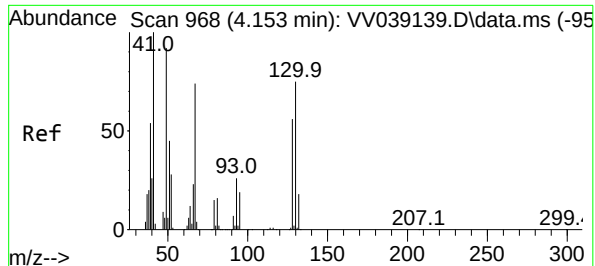
Tgt Ion: 78 Resp: 3611886

Ion Ratio Lower Upper

78 100

77 24.2 18.7 28.1

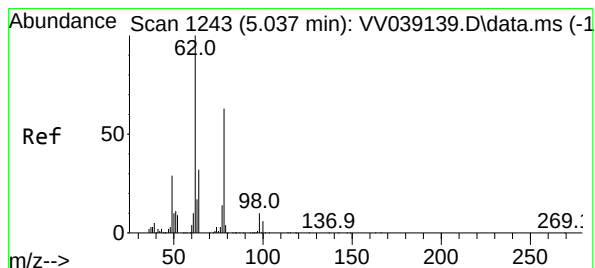
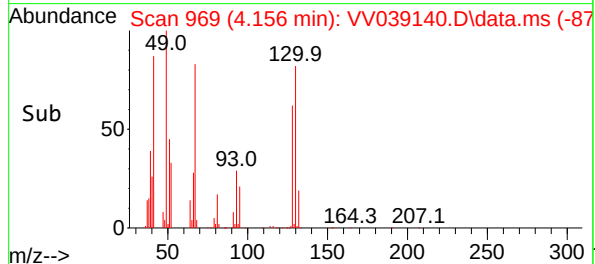
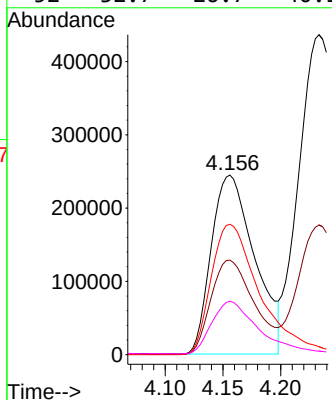
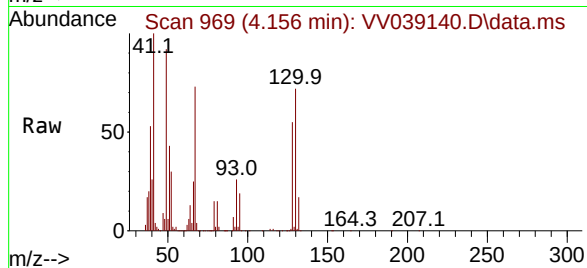




#41
Methacrylonitrile
Concen: 100.494 ug/l
RT: 4.156 min Scan# 968
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

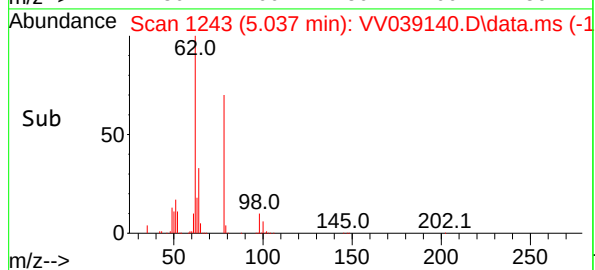
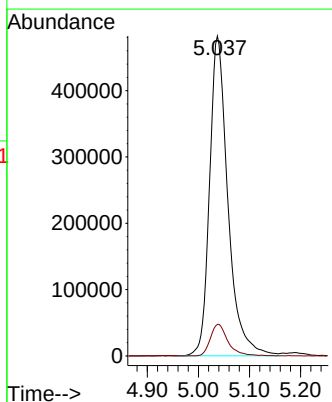
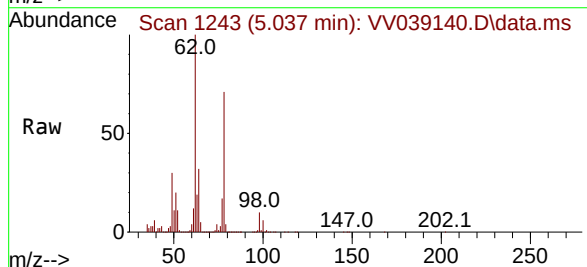
Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

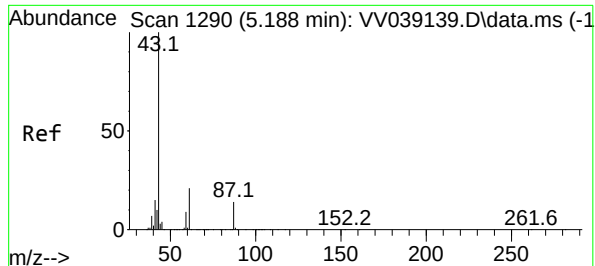
Tgt Ion: 41 Resp: 639301
Ion Ratio Lower Upper
41 100
39 52.4 42.2 63.2
67 83.7 67.9 101.9
52 32.7 26.7 40.1



#42
1,2-Dichloroethane
Concen: 92.737 ug/l
RT: 5.037 min Scan# 1243
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 62 Resp: 1202991
Ion Ratio Lower Upper
62 100
98 9.5 0.0 19.2





#43

Isopropyl Acetate

Concen: 106.372 ug/l

RT: 5.191 min Scan# 1291

Delta R.T. 0.003 min

Lab File: VV039140.D

Acq: 22 Sep 2025 13:49

Instrument :

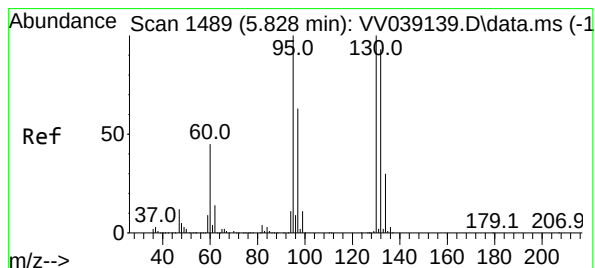
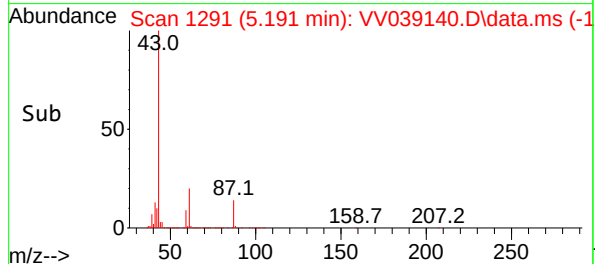
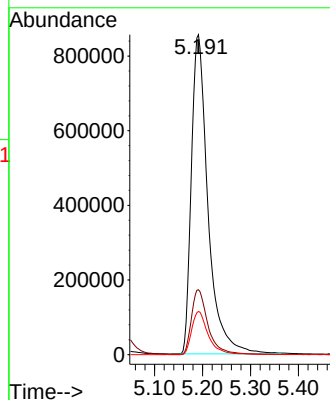
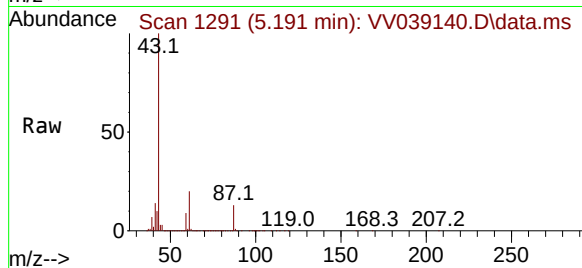
MSVOA_V

ClientSampleId :

VSTDIC100

Tgt Ion: 43 Resp: 2058622

Ion	Ratio	Lower	Upper
43	100		
61	20.1	15.9	23.9
87	13.6	11.0	16.6



#44

Trichloroethene

Concen: 99.474 ug/l

RT: 5.828 min Scan# 1489

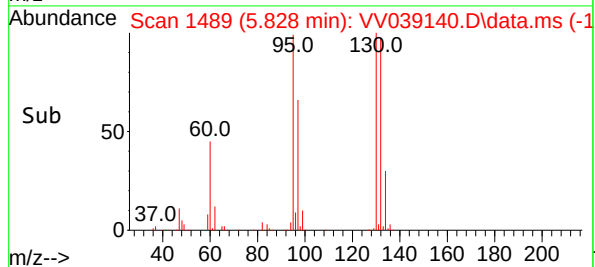
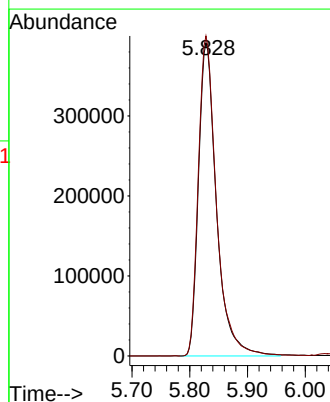
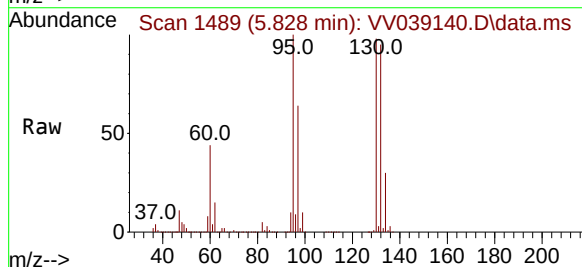
Delta R.T. -0.000 min

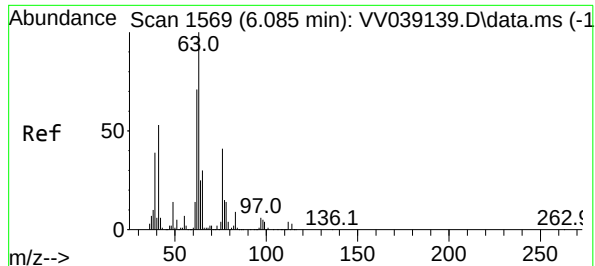
Lab File: VV039140.D

Acq: 22 Sep 2025 13:49

Tgt Ion: 130 Resp: 849813

Ion	Ratio	Lower	Upper
130	100		
95	102.2	0.0	199.2





#45

1,2-Dichloropropane

Concen: 98.813 ug/l

RT: 6.088 min Scan# 1570

Delta R.T. 0.003 min

Lab File: VV039140.D

Acq: 22 Sep 2025 13:49

Instrument :

MSVOA_V

ClientSampleId :

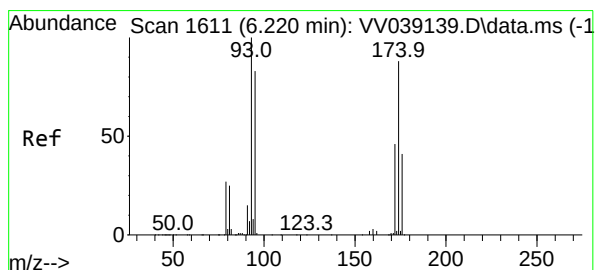
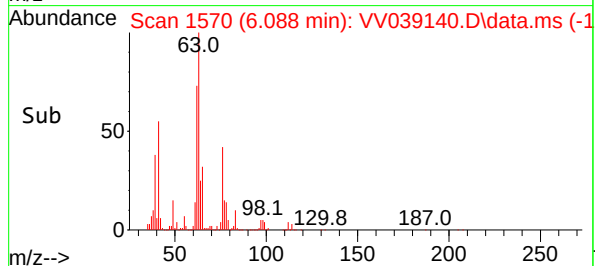
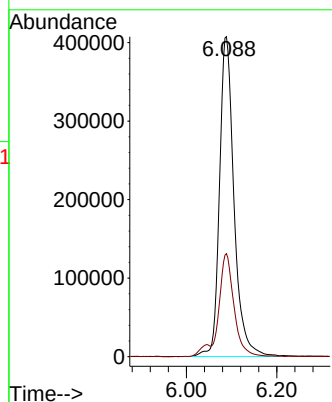
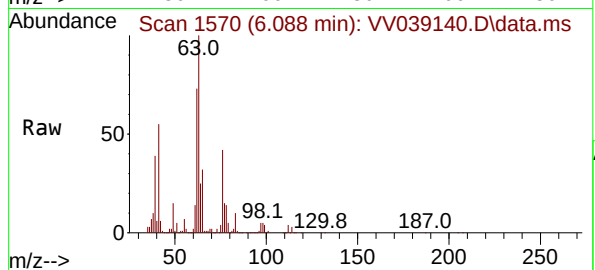
VSTDIC100

Tgt Ion: 63 Resp: 909288

Ion Ratio Lower Upper

63 100

65 32.2 23.7 35.5



#46

Dibromomethane

Concen: 93.898 ug/l

RT: 6.220 min Scan# 1611

Delta R.T. -0.000 min

Lab File: VV039140.D

Acq: 22 Sep 2025 13:49

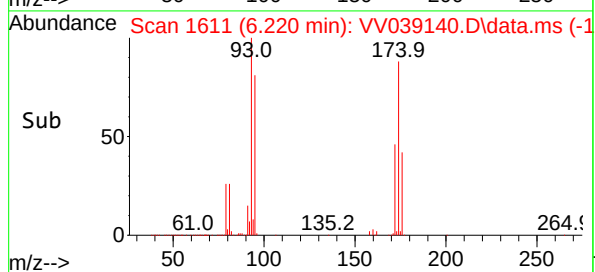
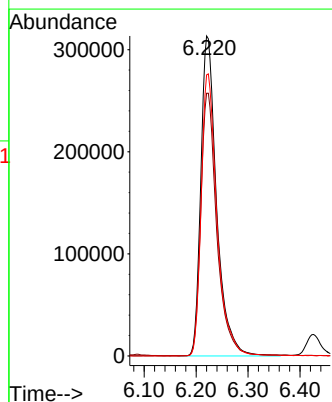
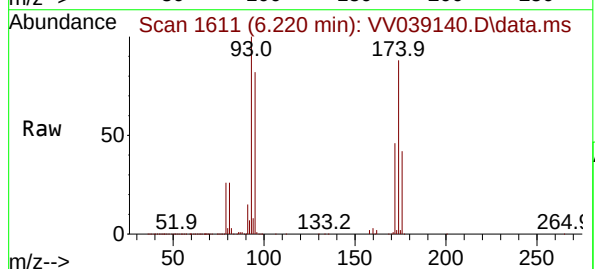
Tgt Ion: 93 Resp: 661336

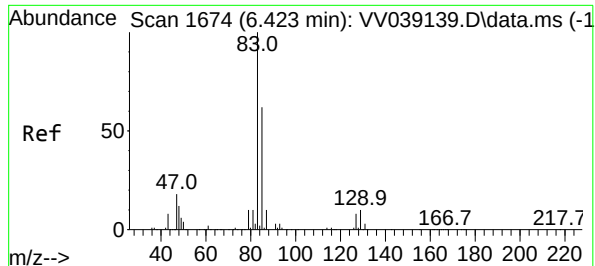
Ion Ratio Lower Upper

93 100

95 82.8 65.5 98.3

174 88.3 69.0 103.4





#47

Bromodichloromethane

Concen: 93.118 ug/l

RT: 6.426 min Scan# 1

Delta R.T. 0.003 min

Lab File: VV039140.D

Acq: 22 Sep 2025 13:49

Instrument :

MSVOA_V

ClientSampleId :

VSTDICC100

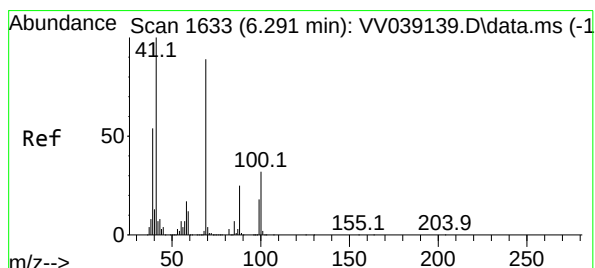
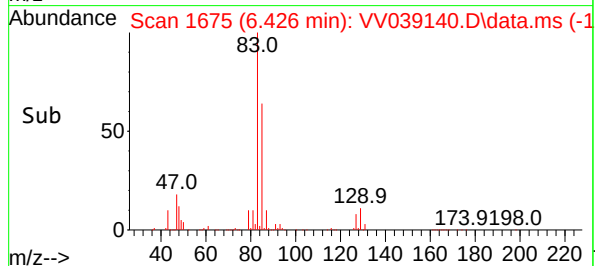
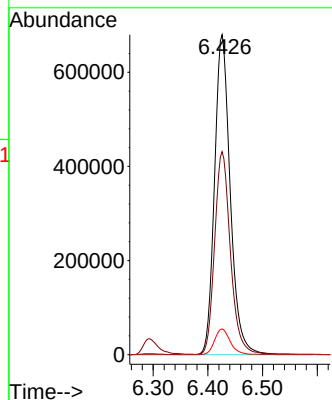
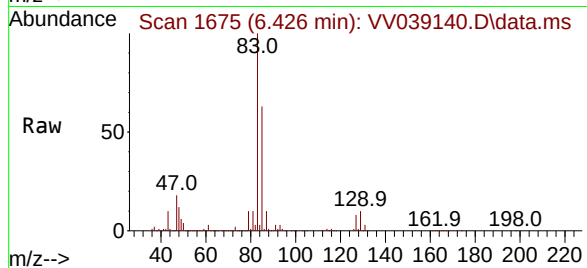
Tgt Ion: 83 Resp: 1355845

Ion Ratio Lower Upper

83 100

85 63.3 49.7 74.5

127 8.0 6.6 9.8



#48

Methyl methacrylate

Concen: 111.182 ug/l

RT: 6.294 min Scan# 1634

Delta R.T. 0.003 min

Lab File: VV039140.D

Acq: 22 Sep 2025 13:49

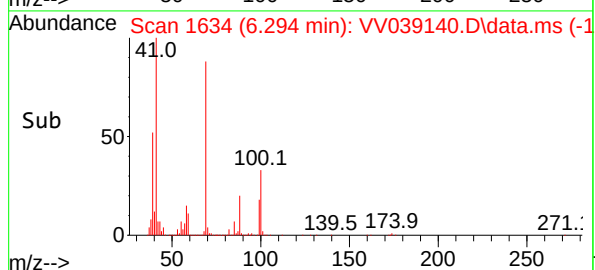
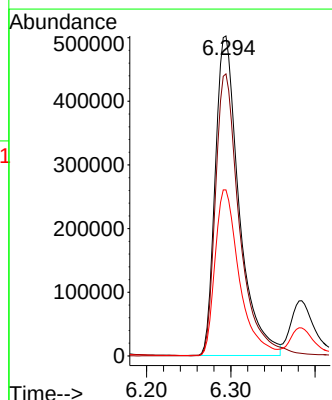
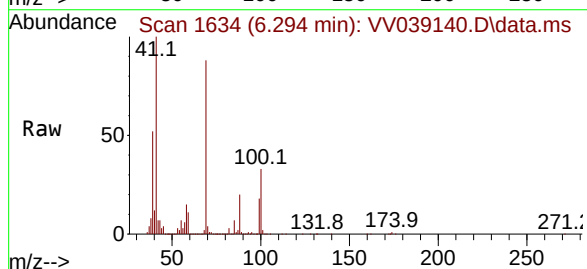
Tgt Ion: 41 Resp: 984431

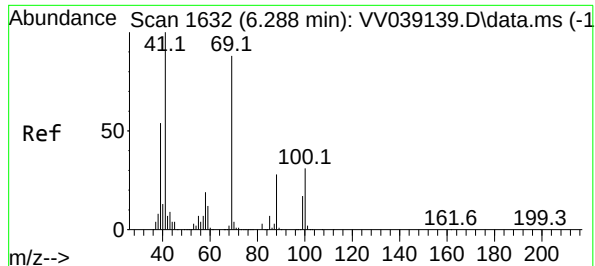
Ion Ratio Lower Upper

41 100

69 90.0 72.4 108.6

39 52.7 42.5 63.7





#49

1,4-Dioxane

Concen: 2191.331 ug/l

RT: 6.288 min Scan# 1

Delta R.T. -0.000 min

Lab File: VV039140.D

Acq: 22 Sep 2025 13:49

Instrument :

MSVOA_V

ClientSampleId :

VSTDICC100

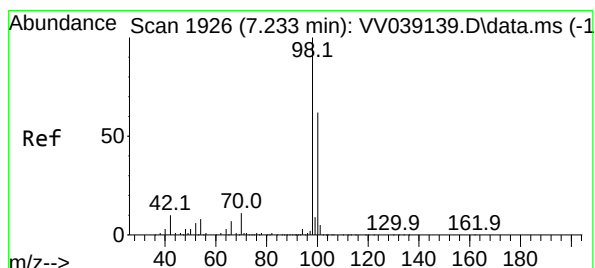
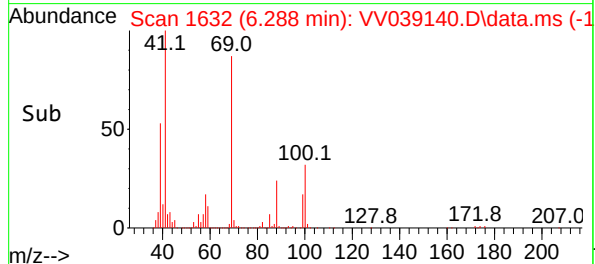
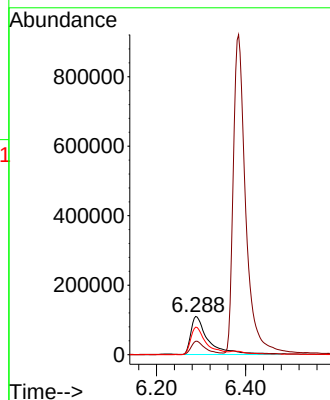
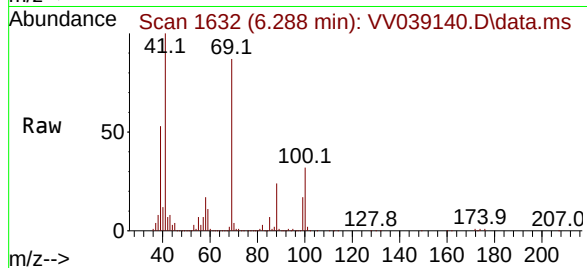
Tgt Ion: 88 Resp: 304943

Ion Ratio Lower Upper

88 100

43 29.1 25.1 37.7

58 62.6 53.6 80.4



#50

Toluene-d8

Concen: 92.932 ug/l

RT: 7.236 min Scan# 1927

Delta R.T. 0.003 min

Lab File: VV039140.D

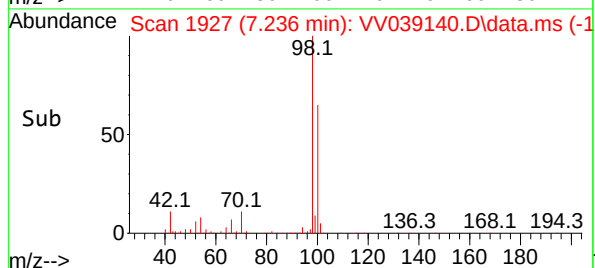
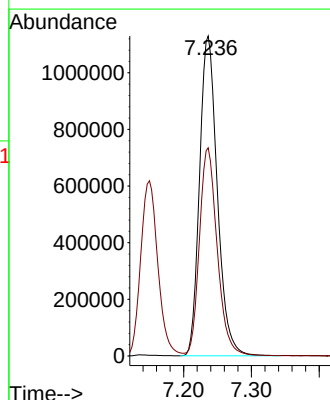
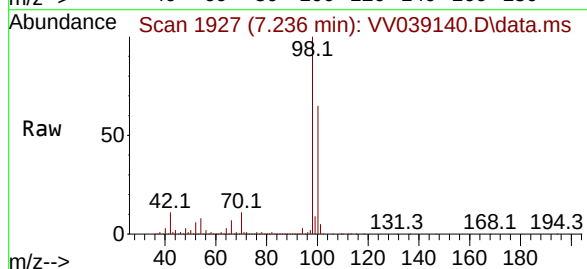
Acq: 22 Sep 2025 13:49

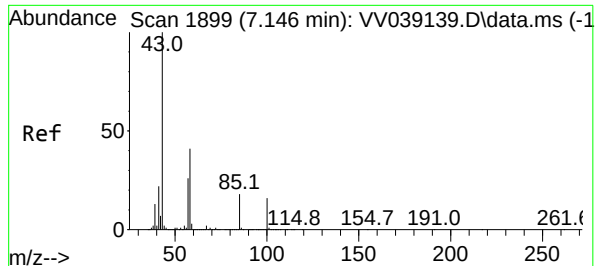
Tgt Ion: 98 Resp: 2052477

Ion Ratio Lower Upper

98 100

100 65.3 52.2 78.2





#51

4-Methyl-2-Pentanone

Concen: 539.372 ug/l

RT: 7.149 min Scan# 1899

Delta R.T. 0.003 min

Lab File: VV039140.D

Acq: 22 Sep 2025 13:49

Instrument :

MSVOA_V

ClientSampleId :

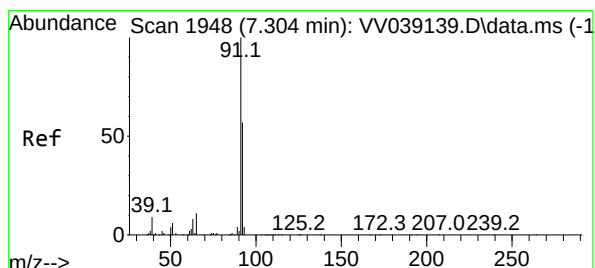
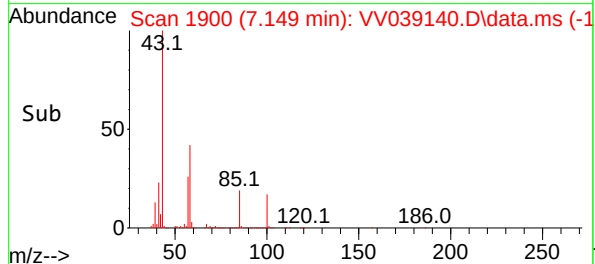
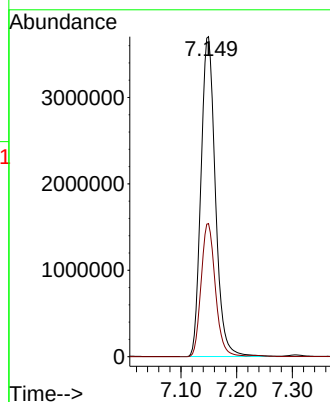
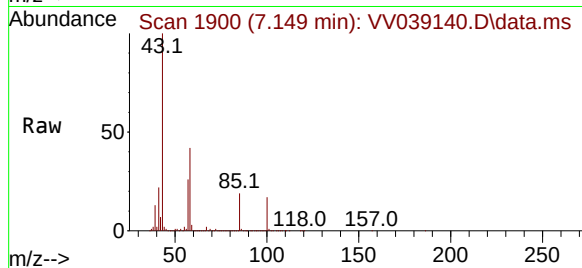
VSTDIC100

Tgt Ion: 43 Resp: 6674594

Ion Ratio Lower Upper

43 100

58 41.1 32.3 48.5



#52

Toluene

Concen: 105.813 ug/l

RT: 7.307 min Scan# 1949

Delta R.T. 0.003 min

Lab File: VV039140.D

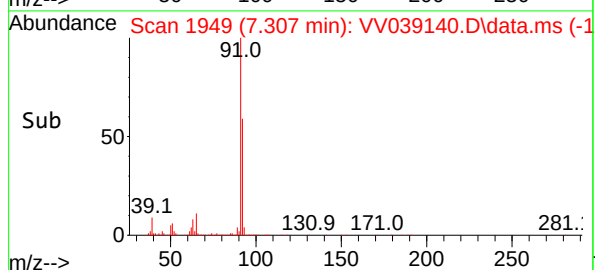
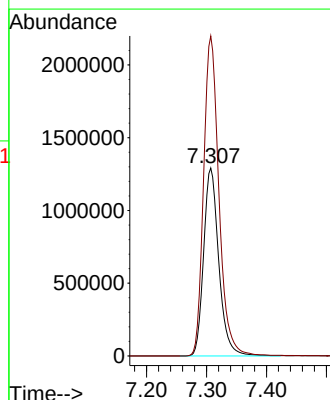
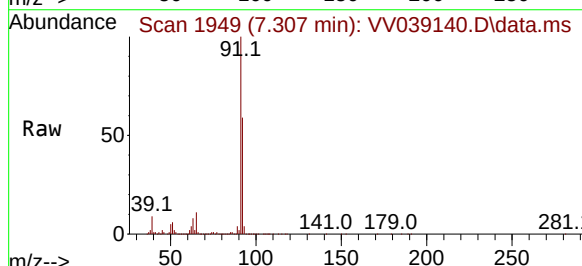
Acq: 22 Sep 2025 13:49

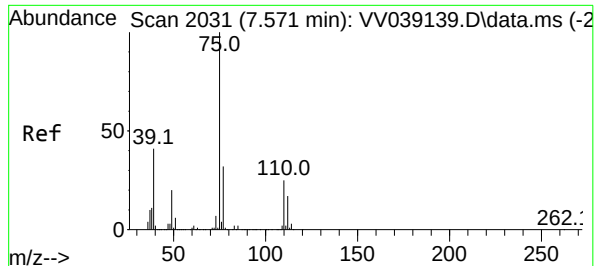
Tgt Ion: 92 Resp: 2271340

Ion Ratio Lower Upper

92 100

91 172.4 139.2 208.8





#53

t-1,3-Dichloropropene

Concen: 110.970 ug/l

RT: 7.571 min Scan# 2031

Delta R.T. -0.000 min

Lab File: VV039140.D

Acq: 22 Sep 2025 13:49

Instrument :

MSVOA_V

ClientSampleId :

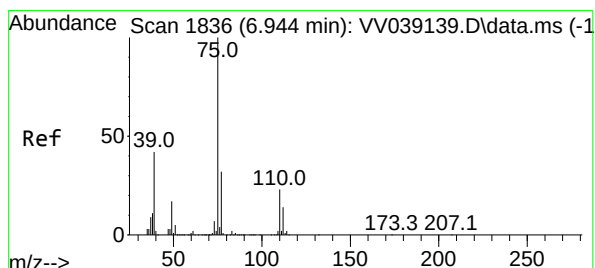
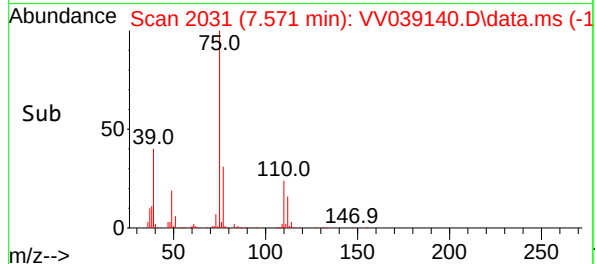
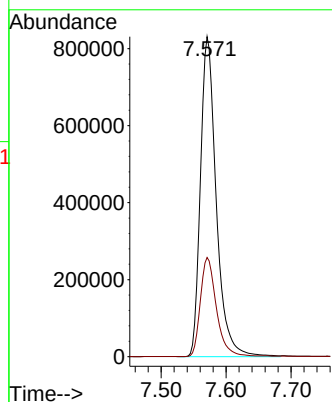
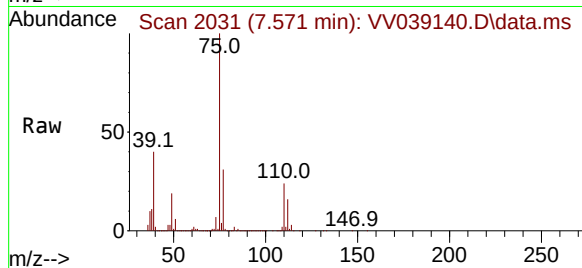
VSTDICC100

Tgt Ion: 75 Resp: 1408125

Ion Ratio Lower Upper

75 100

77 31.0 25.9 38.9



#54

cis-1,3-Dichloropropene

Concen: 107.178 ug/l

RT: 6.947 min Scan# 1837

Delta R.T. 0.003 min

Lab File: VV039140.D

Acq: 22 Sep 2025 13:49

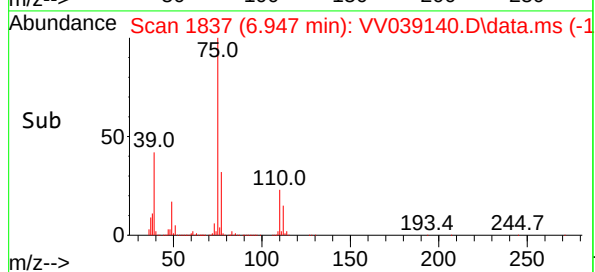
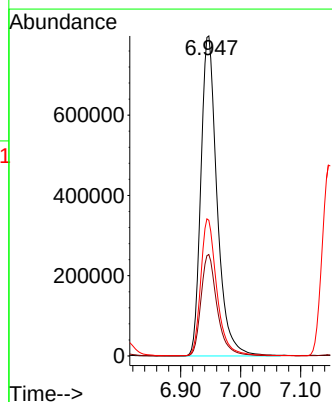
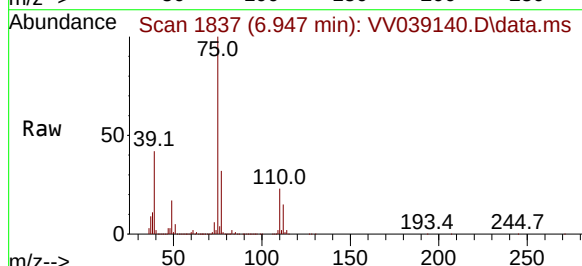
Tgt Ion: 75 Resp: 1501380

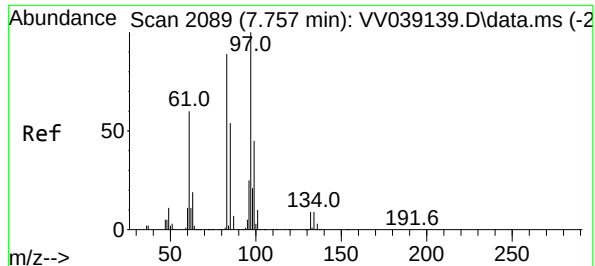
Ion Ratio Lower Upper

75 100

77 31.7 25.5 38.3

39 42.3 33.8 50.6





#55

1,1,2-Trichloroethane

Concen: 93.280 ug/l

RT: 7.757 min Scan# 2089

Delta R.T. 0.000 min

Lab File: VV039140.D

Acq: 22 Sep 2025 13:49

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC100

Tgt Ion: 97 Resp: 897804

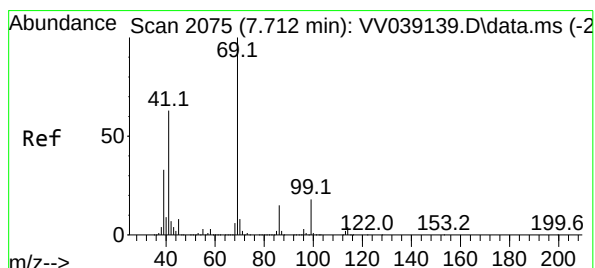
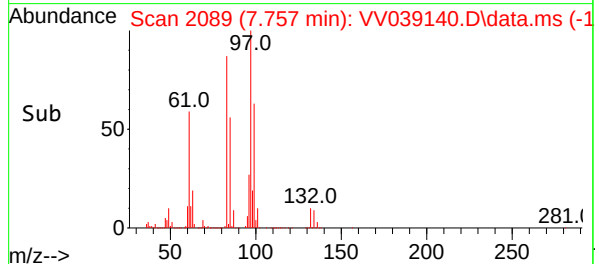
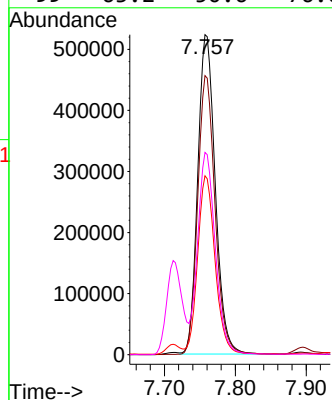
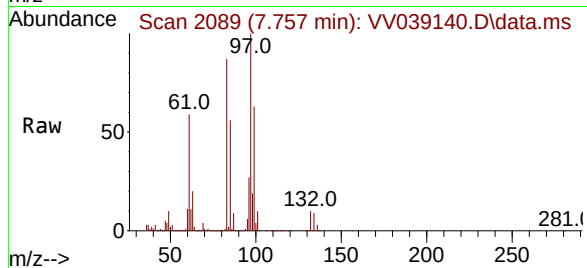
Ion Ratio Lower Upper

97 100

83 87.2 71.1 106.7

85 55.8 44.6 67.0

99 63.2 50.6 76.0



#56

Ethyl methacrylate

Concen: 124.621 ug/l

RT: 7.712 min Scan# 2075

Delta R.T. 0.000 min

Lab File: VV039140.D

Acq: 22 Sep 2025 13:49

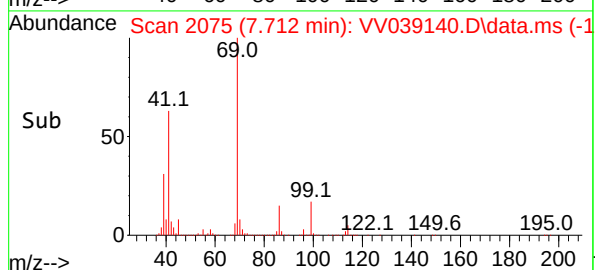
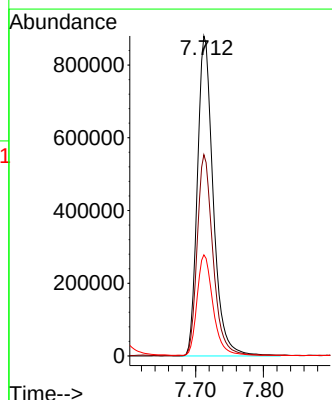
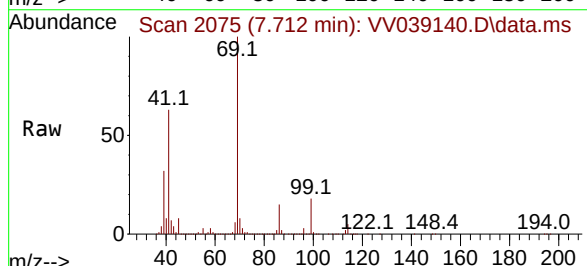
Tgt Ion: 69 Resp: 1424432

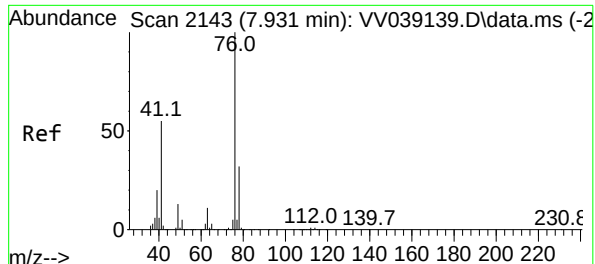
Ion Ratio Lower Upper

69 100

41 62.8 50.7 76.1

39 31.6 26.0 39.0





#57

1,3-Dichloropropane

Concen: 98.832 ug/l

RT: 7.931 min Scan# 2143

Delta R.T. -0.000 min

Lab File: VV039140.D

Acq: 22 Sep 2025 13:49

Instrument :

MSVOA_V

ClientSampleId :

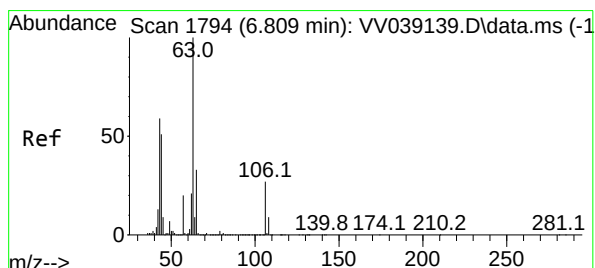
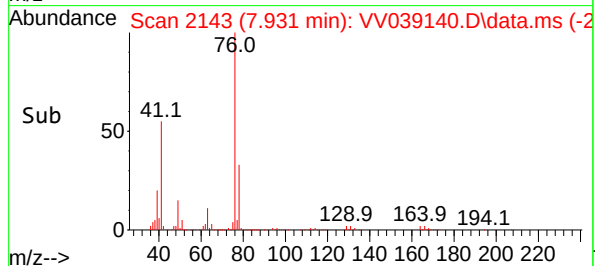
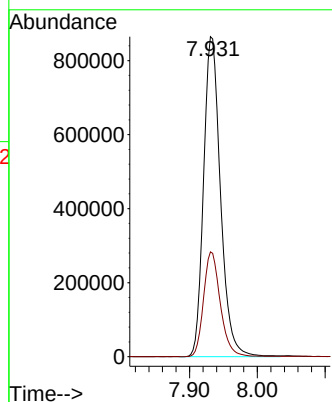
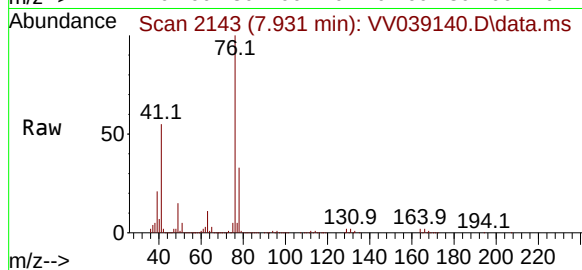
VSTDICC100

Tgt Ion: 76 Resp: 1501225

Ion Ratio Lower Upper

76 100

78 32.4 26.1 39.1



#58

2-Chloroethyl Vinyl ether

Concen: 498.705 ug/l

RT: 6.812 min Scan# 1795

Delta R.T. 0.003 min

Lab File: VV039140.D

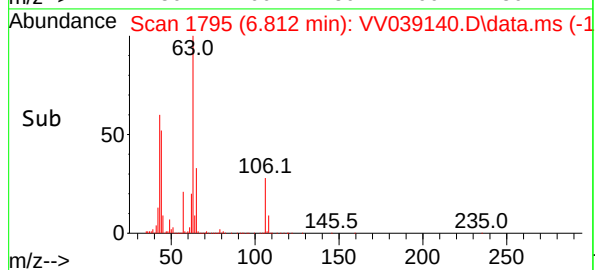
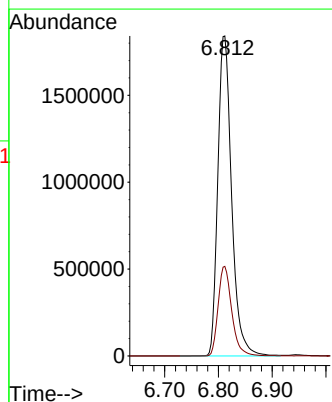
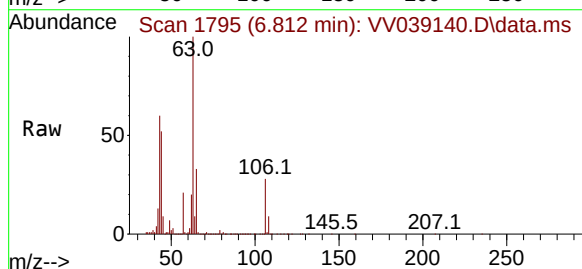
Acq: 22 Sep 2025 13:49

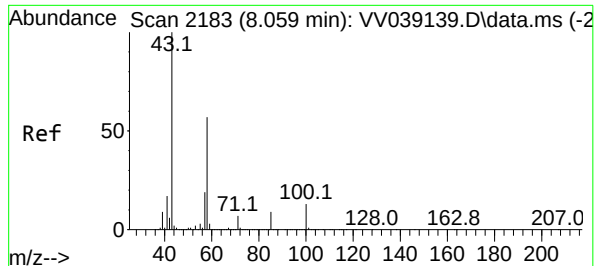
Tgt Ion: 63 Resp: 3282267

Ion Ratio Lower Upper

63 100

106 27.7 22.1 33.1





#59

2-Hexanone

Concen: 497.186 ug/l

RT: 8.063 min Scan# 2184

Delta R.T. 0.004 min

Lab File: VV039140.D

Acq: 22 Sep 2025 13:49

Instrument :

MSVOA_V

ClientSampleId :

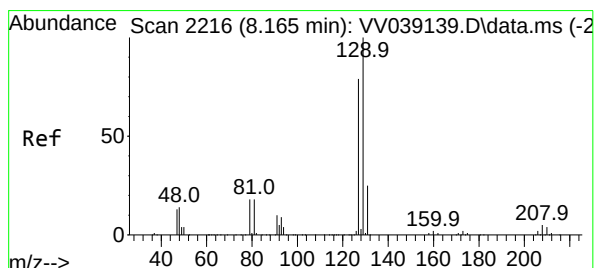
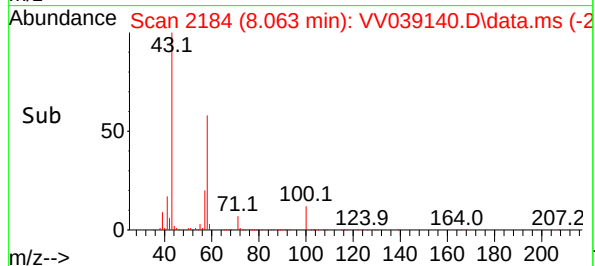
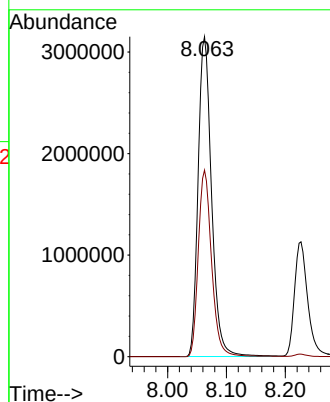
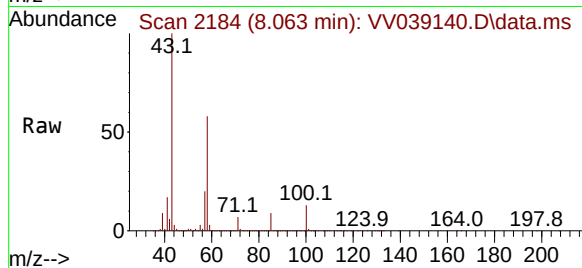
VSTDIC100

Tgt Ion: 43 Resp: 4988835

Ion Ratio Lower Upper

43 100

58 57.6 28.3 85.0



#60

Dibromochloromethane

Concen: 95.206 ug/l

RT: 8.165 min Scan# 2216

Delta R.T. -0.000 min

Lab File: VV039140.D

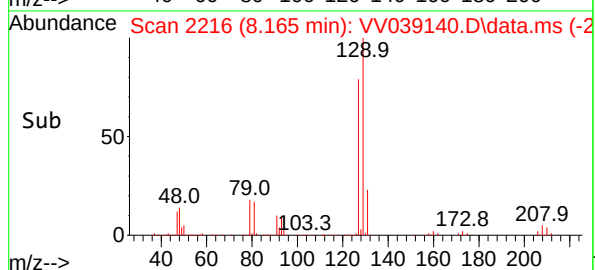
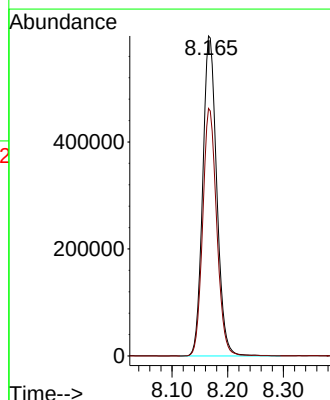
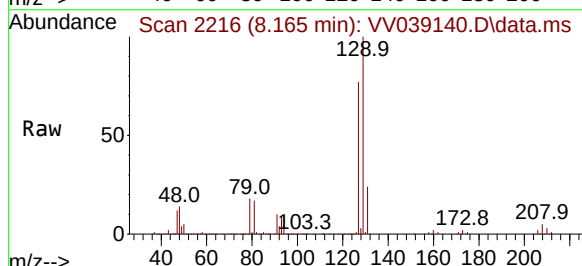
Acq: 22 Sep 2025 13:49

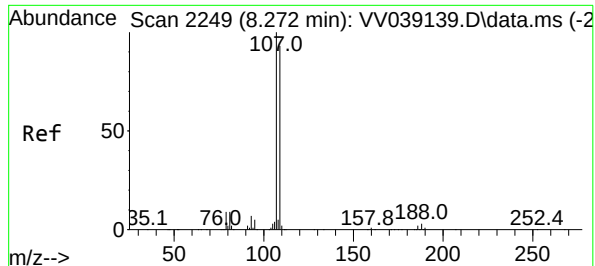
Tgt Ion: 129 Resp: 1044126

Ion Ratio Lower Upper

129 100

127 77.4 39.3 117.9





#61

1,2-Dibromoethane

Concen: 97.622 ug/l

RT: 8.272 min Scan# 21

Delta R.T. -0.000 min

Lab File: VV039140.D

Acq: 22 Sep 2025 13:49

Instrument :

MSVOA_V

ClientSampleId :

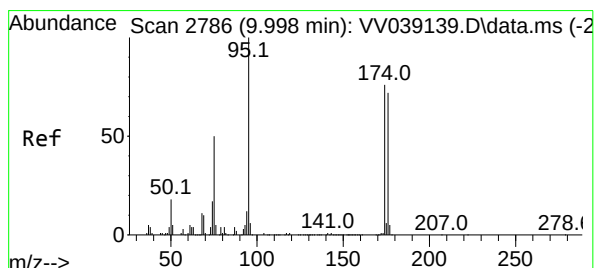
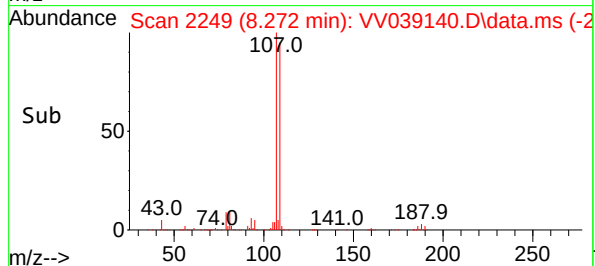
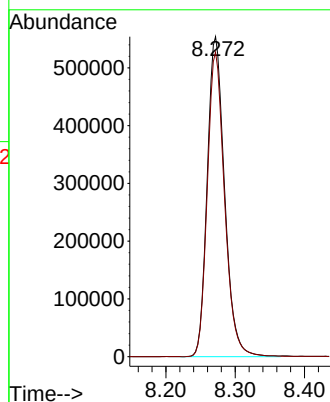
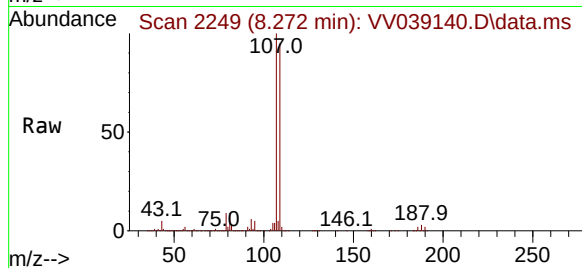
VSTDICC100

Tgt Ion:107 Resp: 960914

Ion Ratio Lower Upper

107 100

109 94.8 74.6 112.0



#62

4-Bromofluorobenzene

Concen: 103.112 ug/l

RT: 9.998 min Scan# 2786

Delta R.T. -0.000 min

Lab File: VV039140.D

Acq: 22 Sep 2025 13:49

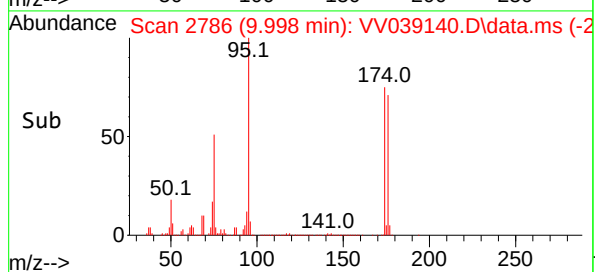
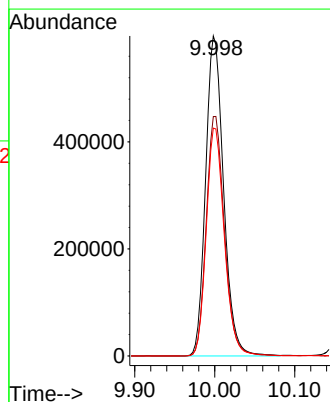
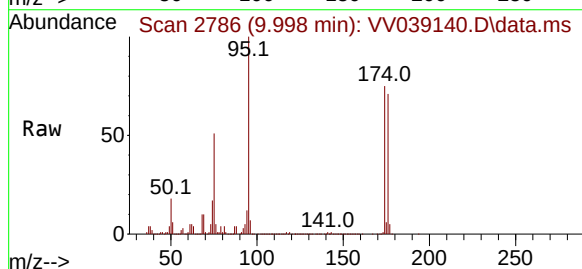
Tgt Ion: 95 Resp: 937505

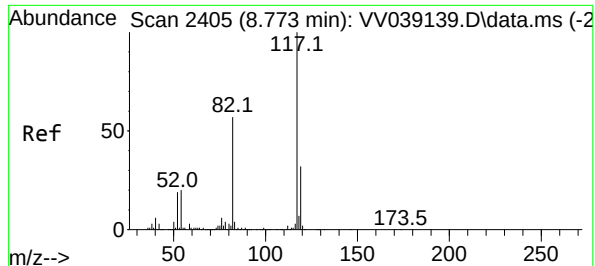
Ion Ratio Lower Upper

95 100

174 75.8 0.0 150.4

176 71.8 0.0 144.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 8.776 min Scan# 2405

Delta R.T. 0.003 min

Lab File: VV039140.D

Acq: 22 Sep 2025 13:49

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC100

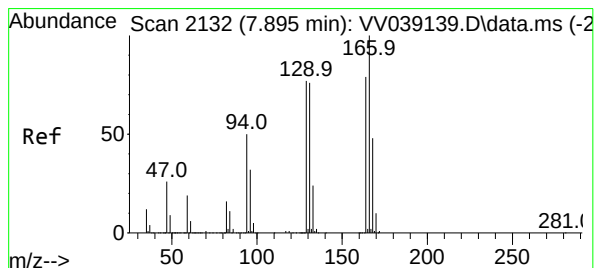
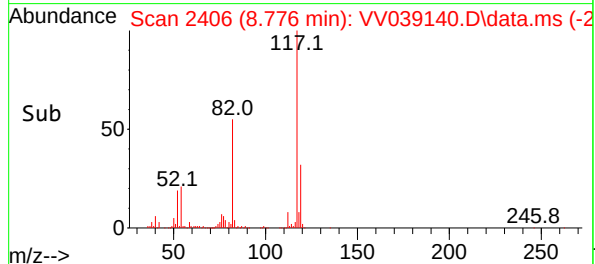
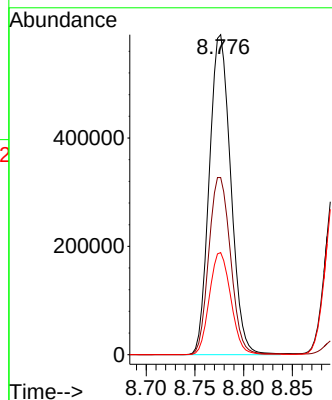
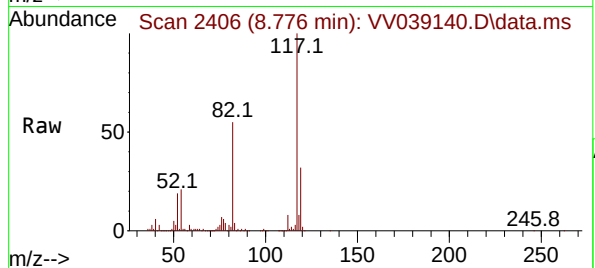
Tgt Ion:117 Resp: 904902

Ion Ratio Lower Upper

117 100

82 55.3 45.4 68.2

119 31.9 25.6 38.4



#64

Tetrachloroethene

Concen: 97.167 ug/l

RT: 7.895 min Scan# 2132

Delta R.T. -0.000 min

Lab File: VV039140.D

Acq: 22 Sep 2025 13:49

Tgt Ion:164 Resp: 736462

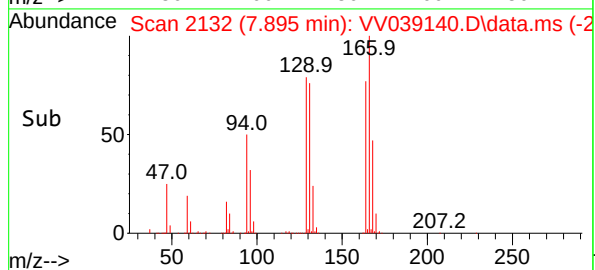
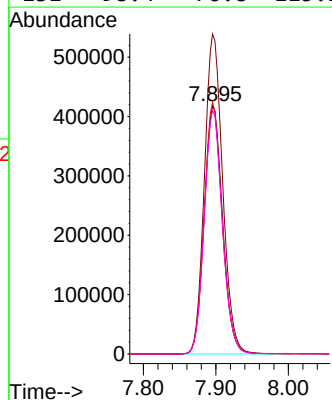
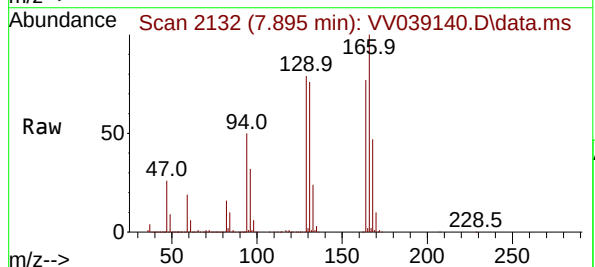
Ion Ratio Lower Upper

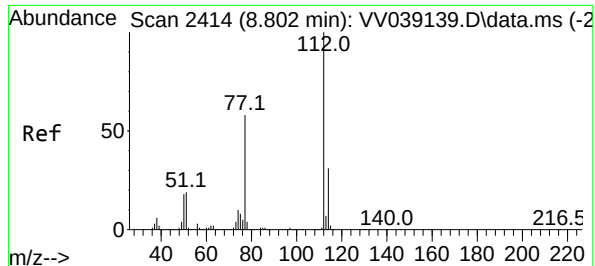
164 100

166 129.1 101.6 152.4

129 101.5 78.5 117.7

131 98.4 76.8 115.2





#65

Chlorobenzene

Concen: 97.480 ug/l

RT: 8.802 min Scan# 2414

Delta R.T. -0.000 min

Lab File: VV039140.D

Acq: 22 Sep 2025 13:49

Instrument :

MSVOA_V

ClientSampleId :

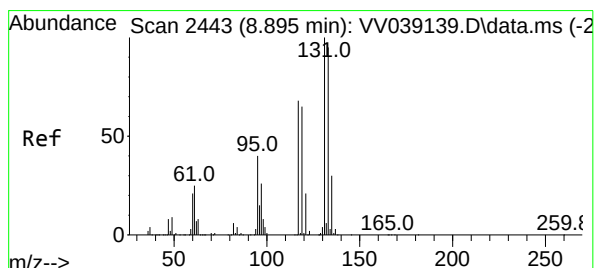
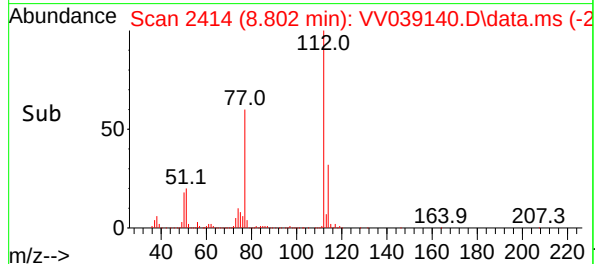
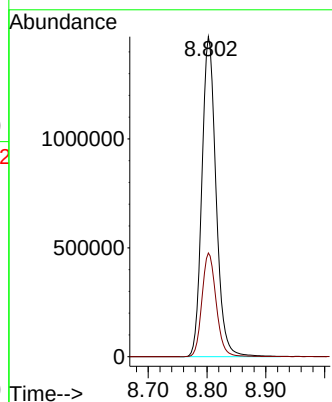
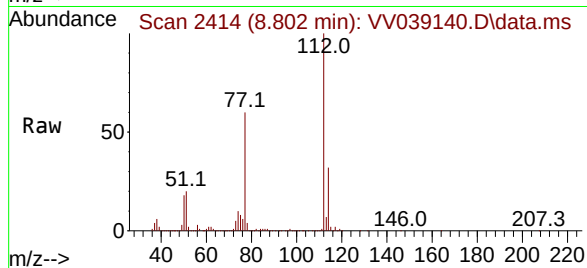
VSTDIC100

Tgt Ion:112 Resp: 2457021

Ion Ratio Lower Upper

112 100

114 32.4 24.6 37.0



#66

1,1,1,2-Tetrachloroethane

Concen: 94.816 ug/l

RT: 8.895 min Scan# 2443

Delta R.T. -0.000 min

Lab File: VV039140.D

Acq: 22 Sep 2025 13:49

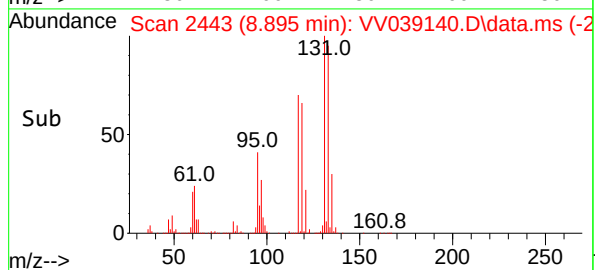
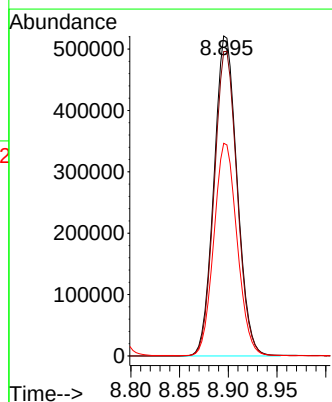
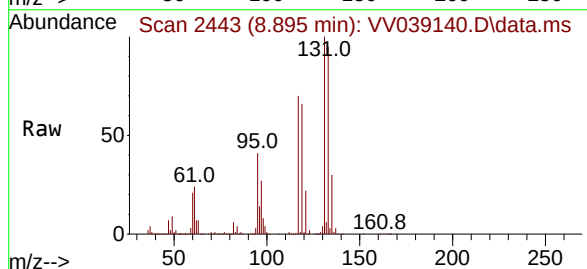
Tgt Ion:131 Resp: 863523

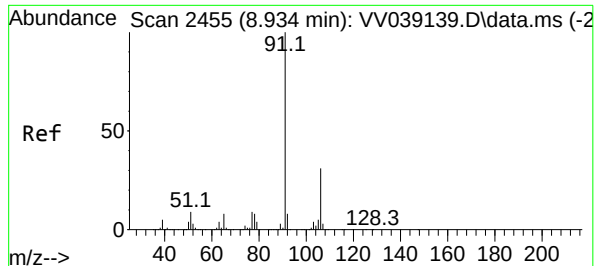
Ion Ratio Lower Upper

131 100

133 94.8 47.3 141.8

119 66.6 33.3 99.8





#67

Ethyl Benzene

Concen: 114.700 ug/l

RT: 8.934 min Scan# 2455

Delta R.T. -0.000 min

Lab File: VV039140.D

Acq: 22 Sep 2025 13:49

Instrument :

MSVOA_V

ClientSampleId :

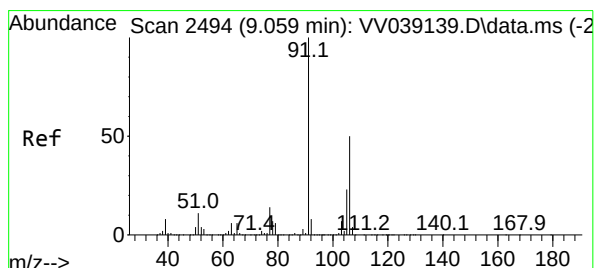
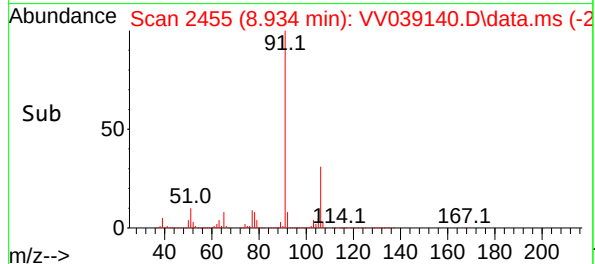
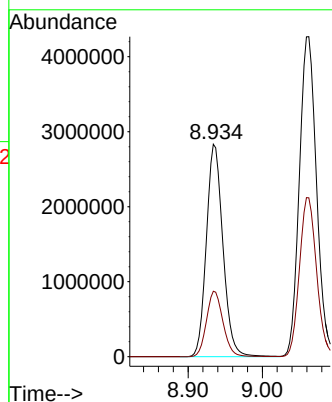
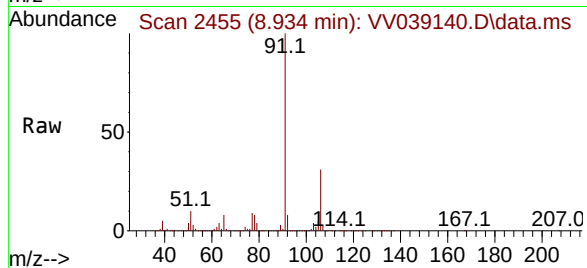
VSTDICC100

Tgt Ion: 91 Resp: 4376266

Ion Ratio Lower Upper

91 100

106 30.8 24.6 37.0



#68

m/p-Xylenes

Concen: 230.657 ug/l

RT: 9.059 min Scan# 2494

Delta R.T. 0.000 min

Lab File: VV039140.D

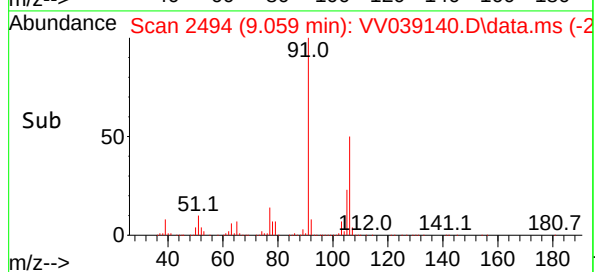
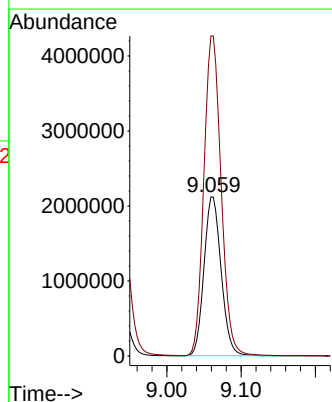
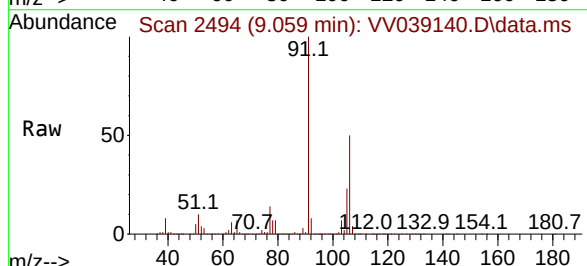
Acq: 22 Sep 2025 13:49

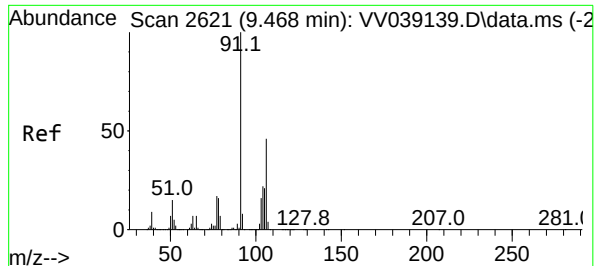
Tgt Ion: 106 Resp: 3396653

Ion Ratio Lower Upper

106 100

91 202.4 162.5 243.7





#69

o-Xylene

Concen: 122.170 ug/l

RT: 9.468 min Scan# 2

Delta R.T. -0.000 min

Lab File: VV039140.D

Acq: 22 Sep 2025 13:49

Instrument :

MSVOA_V

ClientSampleId :

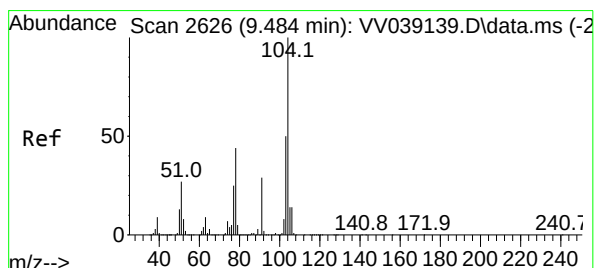
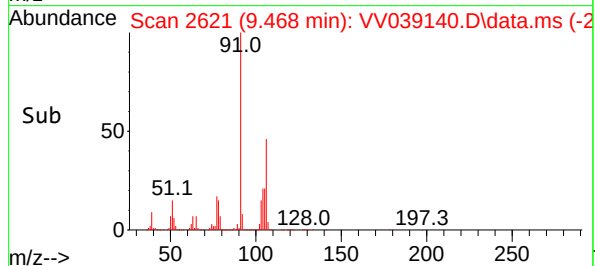
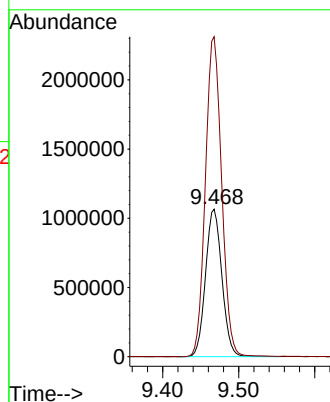
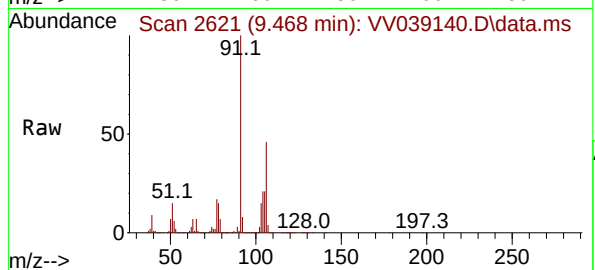
VSTDICC100

Tgt Ion:106 Resp: 1592963

Ion Ratio Lower Upper

106 100

91 215.6 109.1 327.3



#70

Styrene

Concen: 99.832 ug/l

RT: 9.484 min Scan# 2626

Delta R.T. -0.000 min

Lab File: VV039140.D

Acq: 22 Sep 2025 13:49

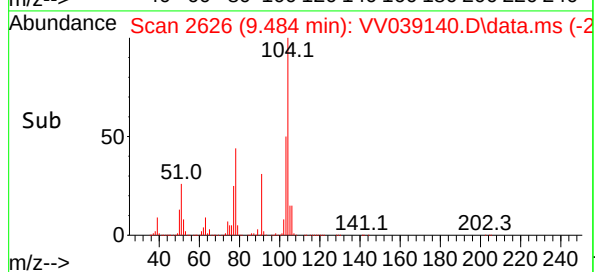
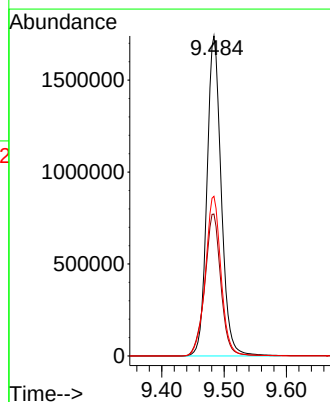
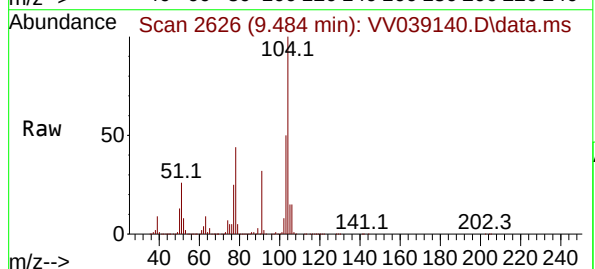
Tgt Ion:104 Resp: 2781887

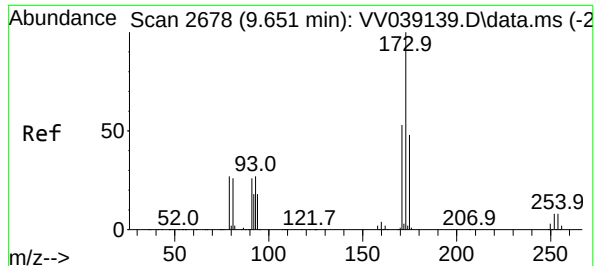
Ion Ratio Lower Upper

104 100

78 49.7 39.8 59.6

103 54.8 43.4 65.2

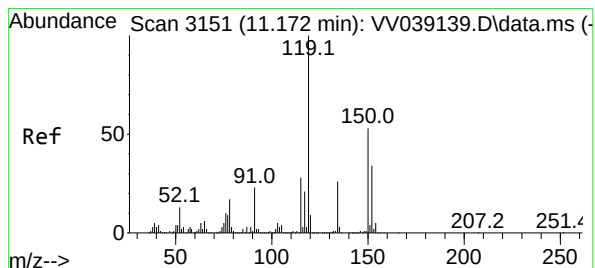
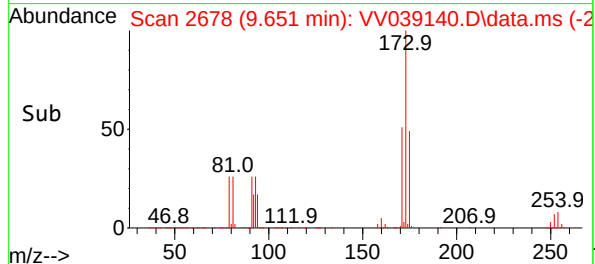
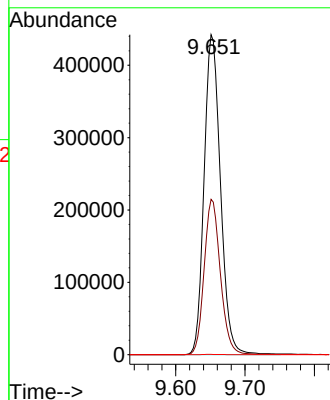
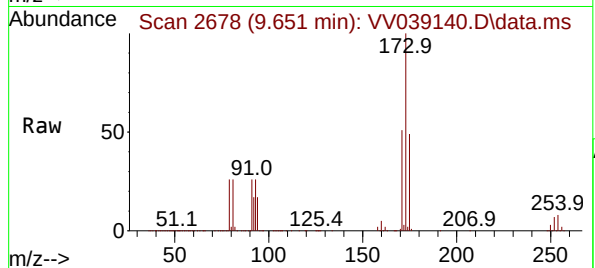




#71
Bromoform
Concen: 101.838 ug/l
RT: 9.651 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

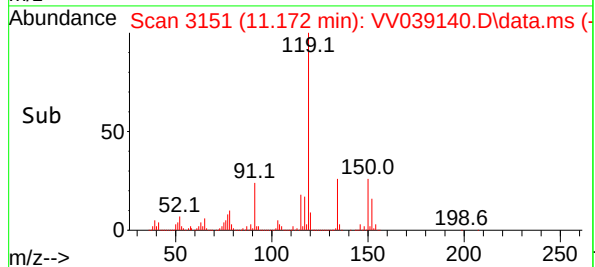
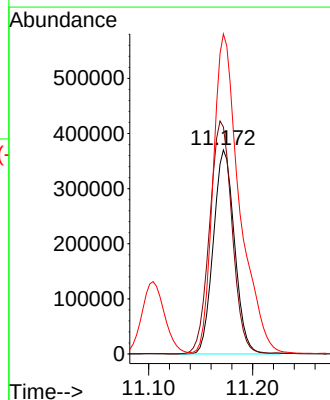
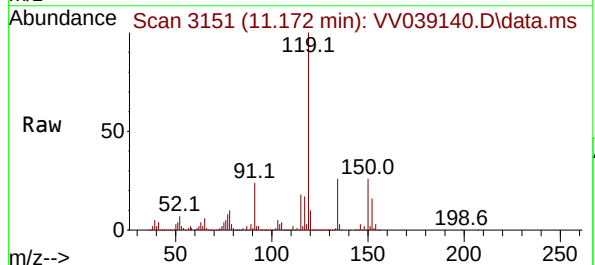
Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

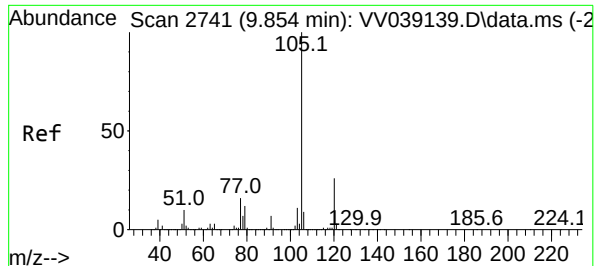
Tgt Ion:173 Resp: 724467
Ion Ratio Lower Upper
173 100
175 48.2 23.9 71.7
254 0.1 0.1 0.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3151
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion:152 Resp: 523452
Ion Ratio Lower Upper
152 100
115 121.0 44.8 134.4
150 195.4 0.0 353.8

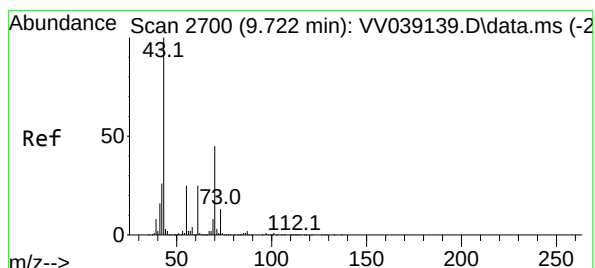
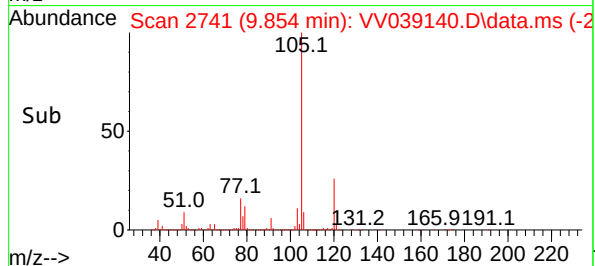
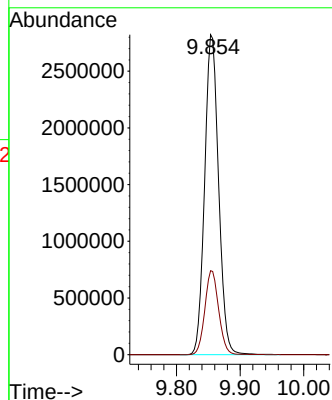
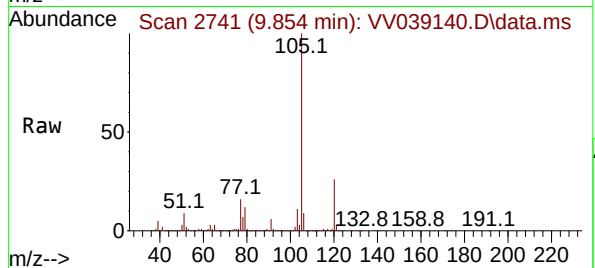




#73
Isopropylbenzene
Concen: 112.946 ug/l
RT: 9.854 min Scan# 2741
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

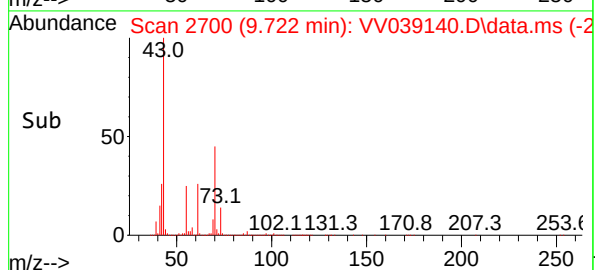
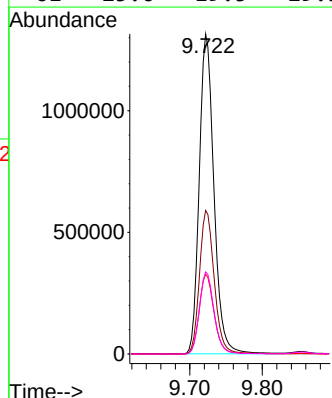
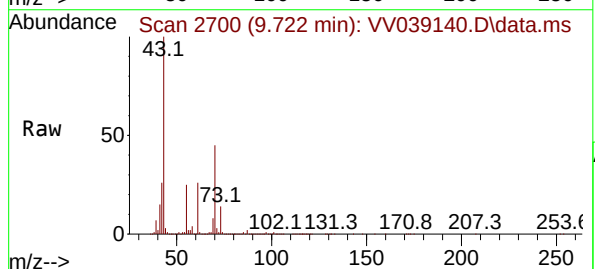
Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

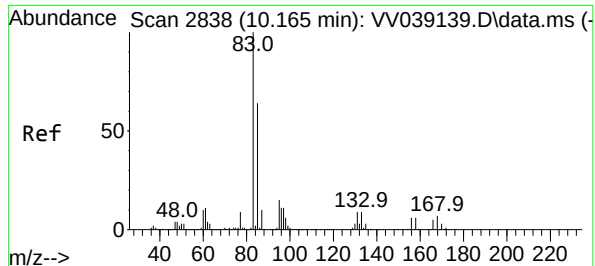
Tgt Ion:105 Resp: 4288139
Ion Ratio Lower Upper
105 100
120 26.0 13.1 39.1



#74
N-ethyl acetate
Concen: 121.948 ug/l
RT: 9.722 min Scan# 2700
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 43 Resp: 1846779
Ion Ratio Lower Upper
43 100
70 45.4 35.4 53.0
55 25.4 20.6 30.8
61 25.6 19.5 29.3





#75

1,1,2,2-Tetrachloroethane

Concen: 87.406 ug/l

RT: 10.165 min Scan# 2838

Delta R.T. -0.000 min

Lab File: VV039140.D

Acq: 22 Sep 2025 13:49

Instrument :

MSVOA_V

ClientSampleId :

VSTDICC100

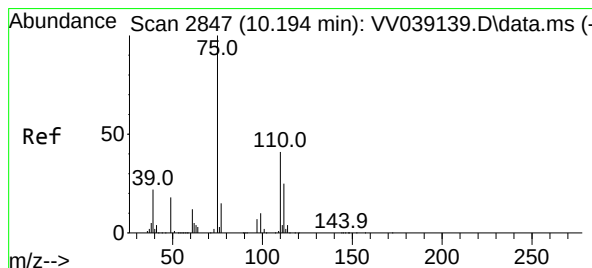
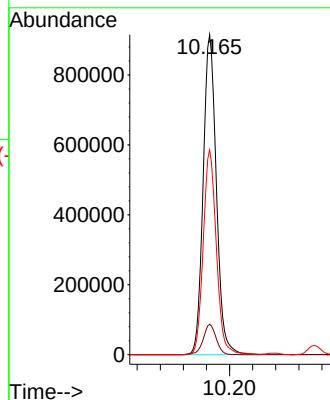
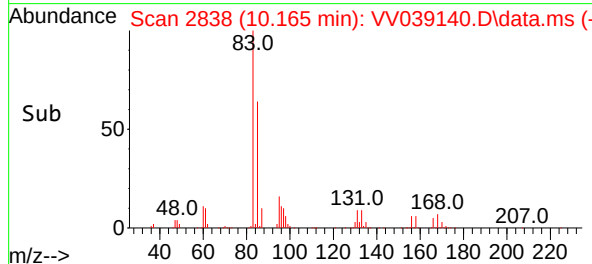
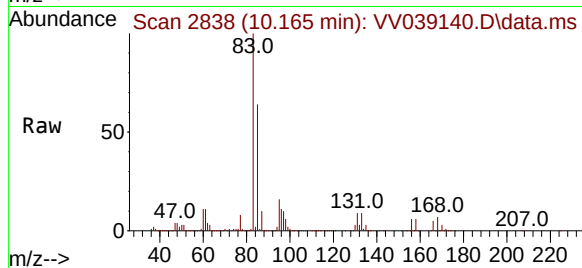
Tgt Ion: 83 Resp: 1453989

Ion Ratio Lower Upper

83 100

131 9.4 4.5 13.7

85 63.6 31.9 95.9



#76

1,2,3-Trichloropropane

Concen: 89.827 ug/l

RT: 10.198 min Scan# 2848

Delta R.T. 0.003 min

Lab File: VV039140.D

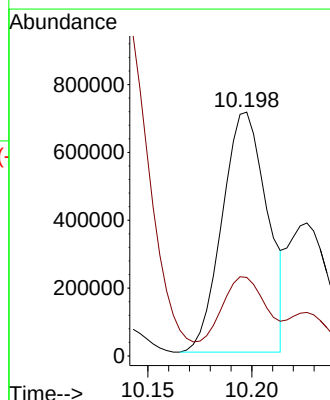
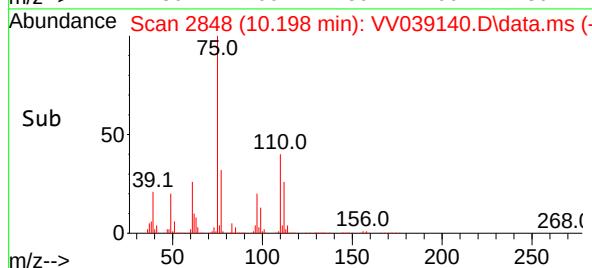
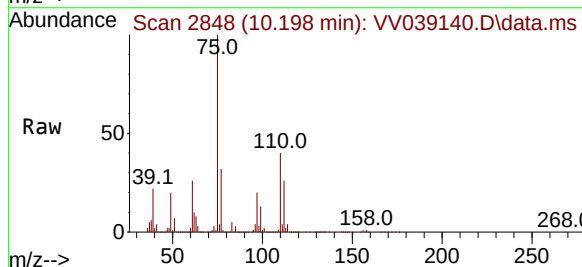
Acq: 22 Sep 2025 13:49

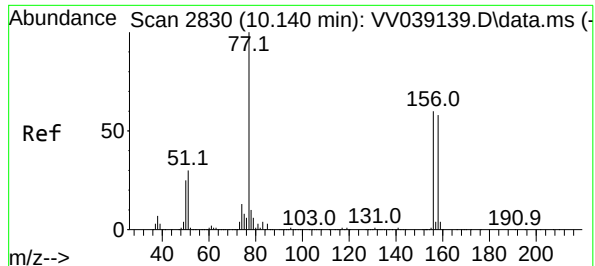
Tgt Ion: 75 Resp: 1070580

Ion Ratio Lower Upper

75 100

77 25.0 11.3 33.8

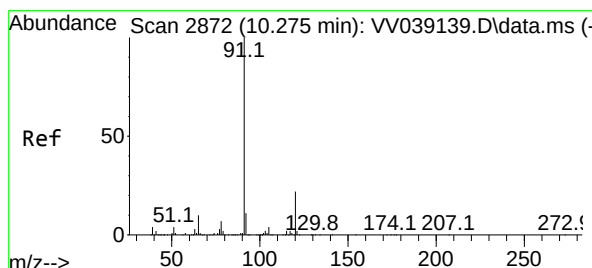
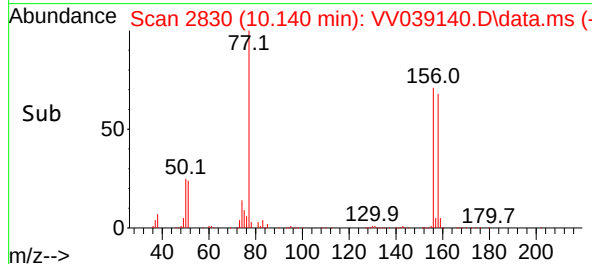
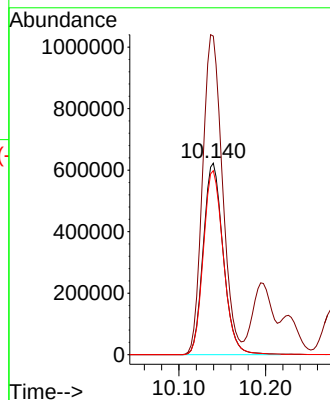
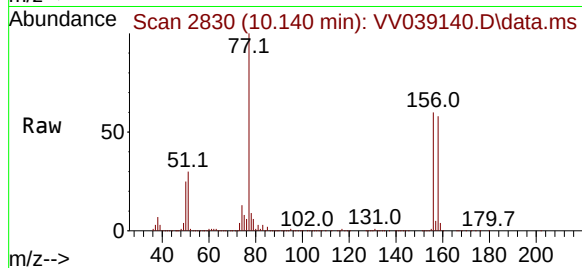




#77
Bromobenzene
Concen: 100.897 ug/l
RT: 10.140 min Scan# 2830
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

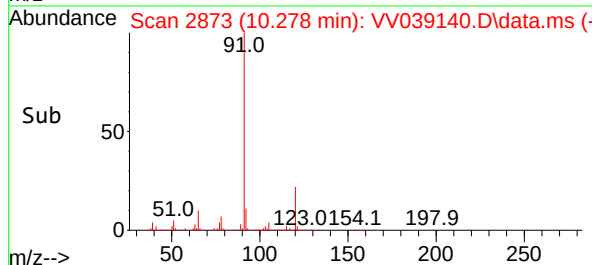
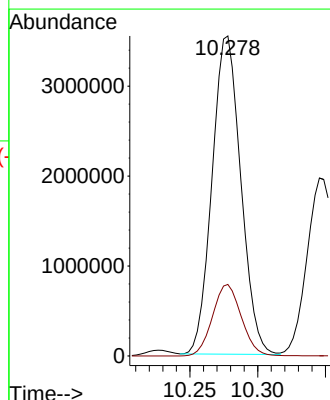
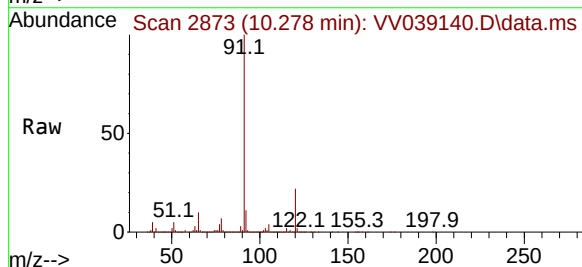
Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

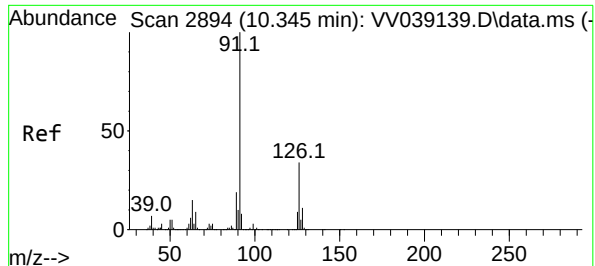
Tgt Ion:	156	Resp:	993863
Ion Ratio	Lower	Upper	
156	100		
77	166.1	83.4	250.1
158	96.7	48.8	146.4



#78
n-propylbenzene
Concen: 112.910 ug/l
RT: 10.278 min Scan# 2873
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion:	91	Resp:	5220220
Ion Ratio	Lower	Upper	
91	100		
120	22.6	11.1	33.3





#79

2-Chlorotoluene

Concen: 109.093 ug/l

RT: 10.345 min Scan# 2894

Delta R.T. -0.000 min

Lab File: VV039140.D

Acq: 22 Sep 2025 13:49

Instrument :

MSVOA_V

ClientSampleId :

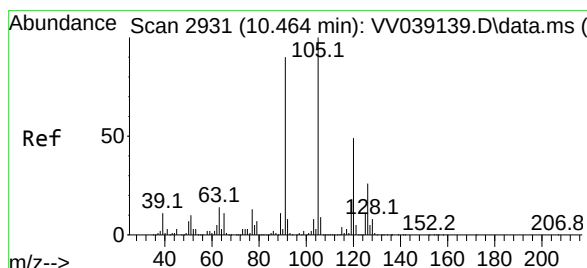
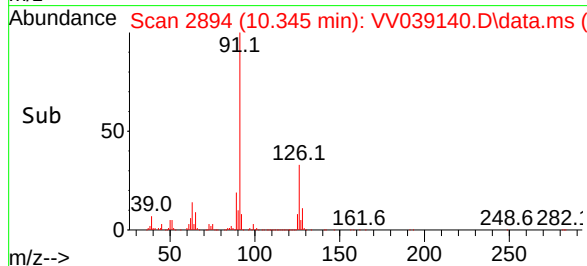
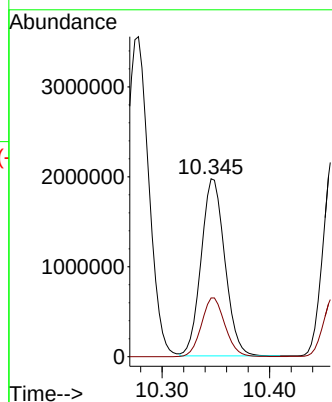
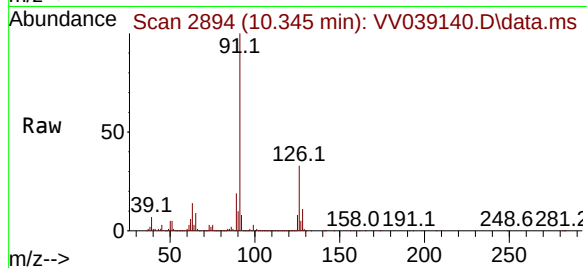
VSTDIC100

Tgt Ion: 91 Resp: 3018051

Ion Ratio Lower Upper

91 100

126 33.0 16.7 50.0



#80

1,3,5-Trimethylbenzene

Concen: 115.284 ug/l

RT: 10.464 min Scan# 2931

Delta R.T. -0.000 min

Lab File: VV039140.D

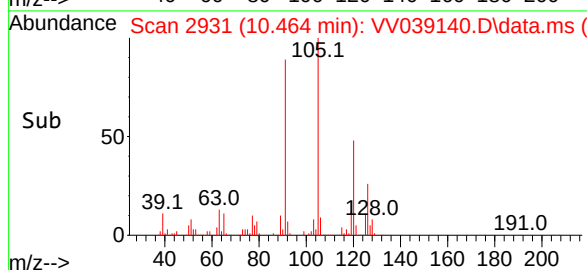
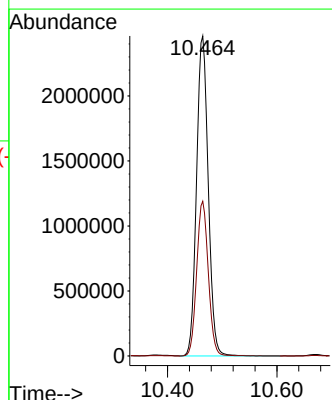
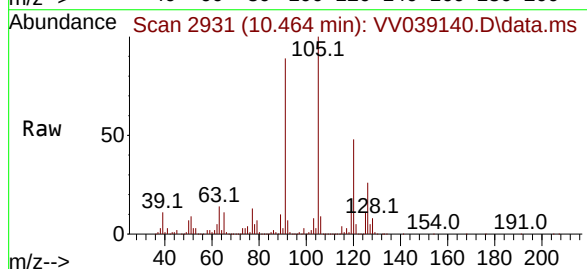
Acq: 22 Sep 2025 13:49

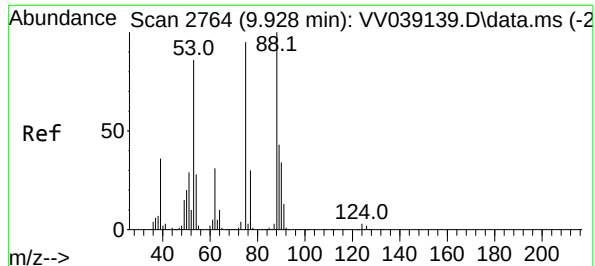
Tgt Ion: 105 Resp: 3638030

Ion Ratio Lower Upper

105 100

120 48.2 24.3 72.8

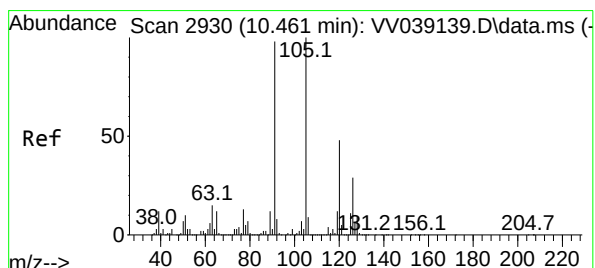
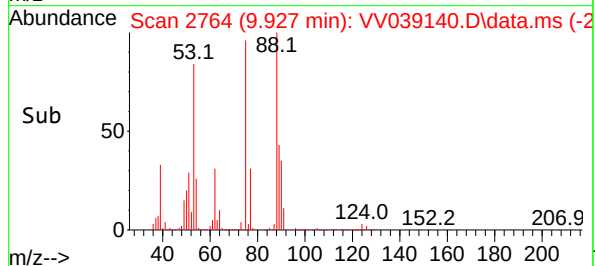
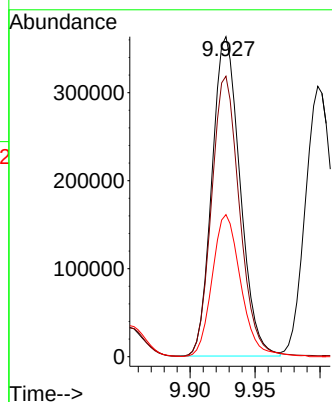
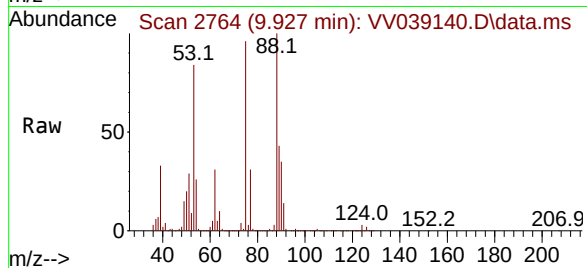




#81
trans-1,4-Dichloro-2-butene
Concen: 109.871 ug/l
RT: 9.927 min Scan# 2764
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

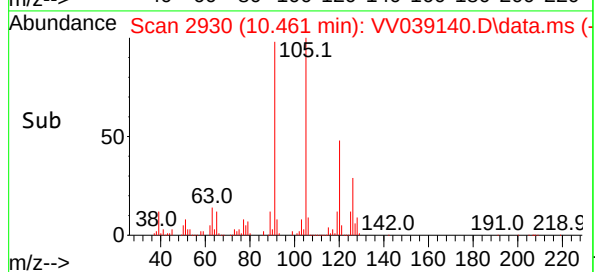
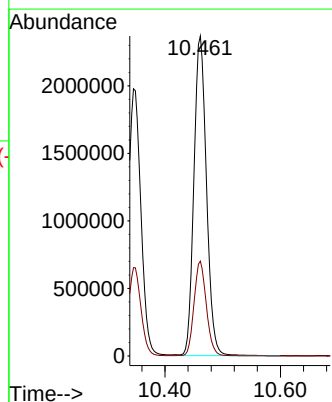
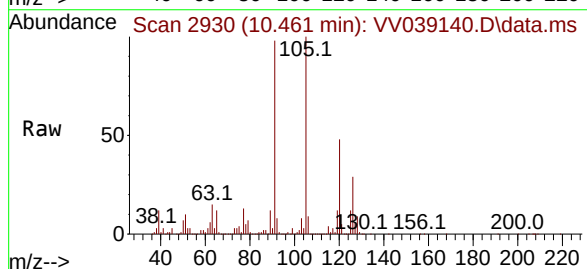
Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

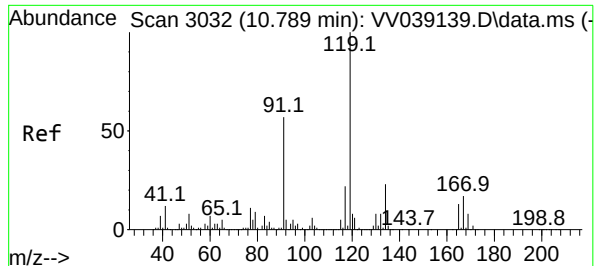
Tgt Ion: 75 Resp: 545452
Ion Ratio Lower Upper
75 100
53 87.6 72.5 108.7
89 45.5 37.2 55.8



#82
4-Chlorotoluene
Concen: 111.396 ug/l
RT: 10.461 min Scan# 2930
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 91 Resp: 3573507
Ion Ratio Lower Upper
91 100
126 29.1 14.5 43.6





#83

tert-Butylbenzene

Concen: 113.541 ug/l

RT: 10.789 min Scan# 3032

Delta R.T. -0.000 min

Lab File: VV039140.D

Acq: 22 Sep 2025 13:49

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC100

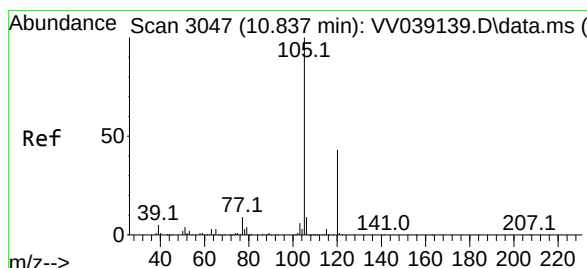
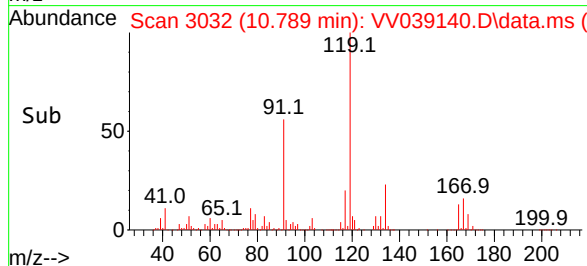
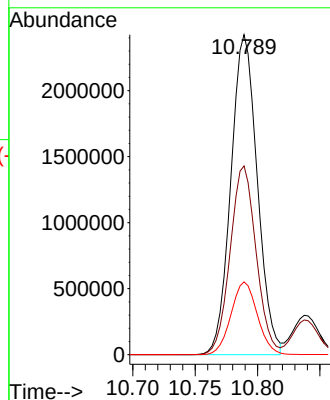
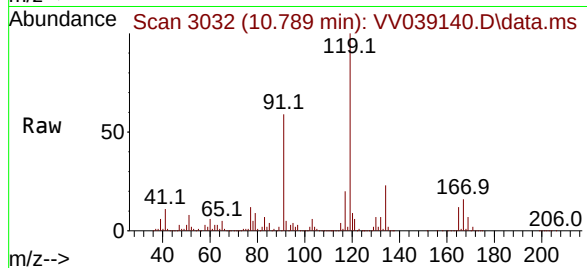
Tgt Ion:119 Resp: 3572813

Ion Ratio Lower Upper

119 100

91 58.2 28.5 85.6

134 22.8 11.5 34.4



#84

1,2,4-Trimethylbenzene

Concen: 117.550 ug/l

RT: 10.837 min Scan# 3047

Delta R.T. -0.000 min

Lab File: VV039140.D

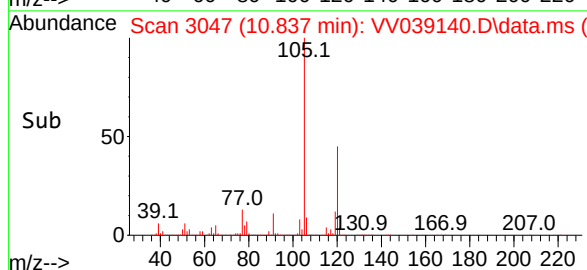
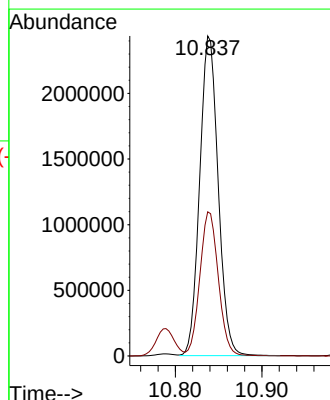
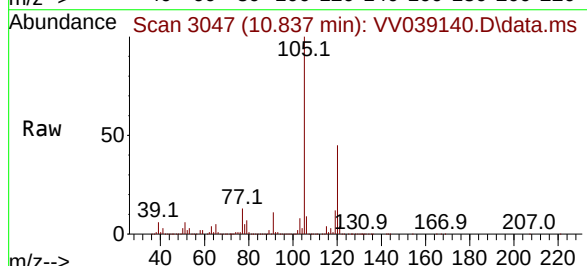
Acq: 22 Sep 2025 13:49

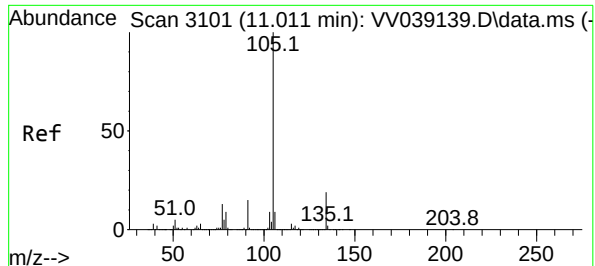
Tgt Ion:105 Resp: 3601355

Ion Ratio Lower Upper

105 100

120 45.1 22.4 67.2





#85

sec-Butylbenzene

Concen: 114.135 ug/l

RT: 11.011 min Scan# 3101

Delta R.T. -0.000 min

Lab File: VV039140.D

Acq: 22 Sep 2025 13:49

Instrument :

MSVOA_V

ClientSampleId :

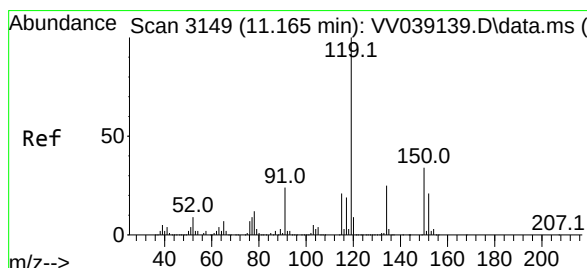
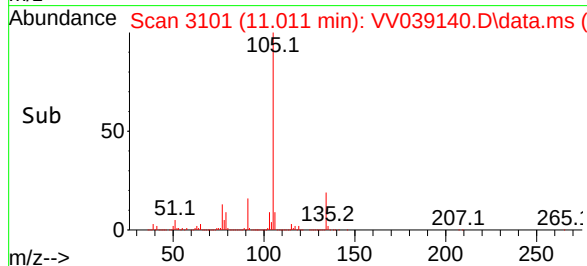
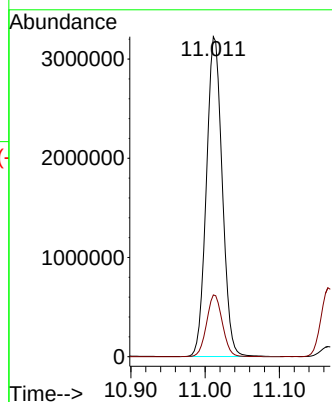
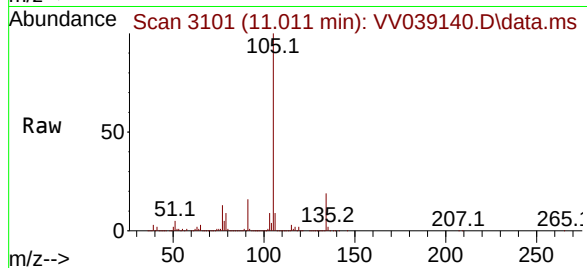
VSTDICC100

Tgt Ion:105 Resp: 4763689

Ion Ratio Lower Upper

105 100

134 19.3 9.6 28.8



#86

p-Isopropyltoluene

Concen: 113.666 ug/l

RT: 11.165 min Scan# 3149

Delta R.T. -0.000 min

Lab File: VV039140.D

Acq: 22 Sep 2025 13:49

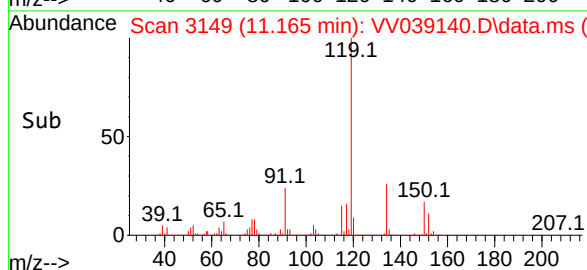
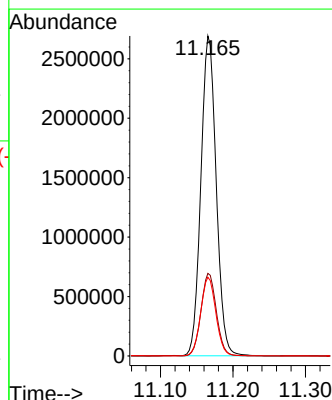
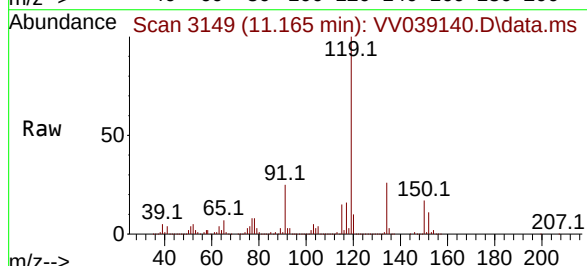
Tgt Ion:119 Resp: 3948556

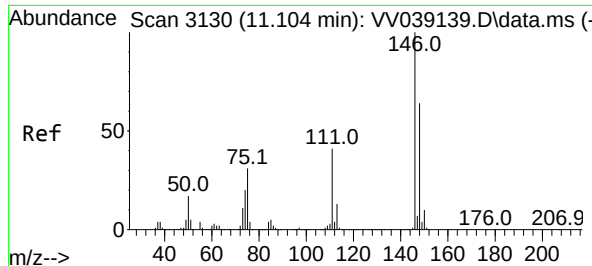
Ion Ratio Lower Upper

119 100

134 25.8 12.7 38.0

91 24.4 12.0 36.1





#87

1,3-Dichlorobenzene

Concen: 98.849 ug/l

RT: 11.104 min Scan# 3130

Delta R.T. -0.000 min

Lab File: VV039140.D

Acq: 22 Sep 2025 13:49

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC100

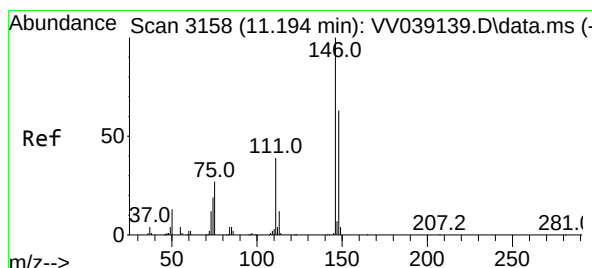
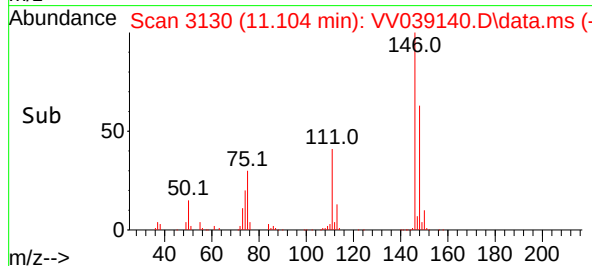
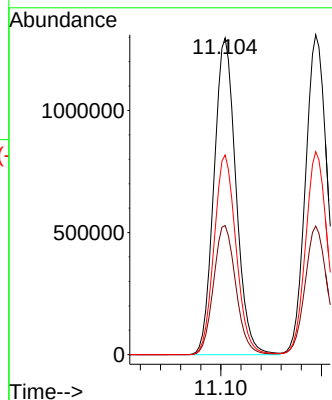
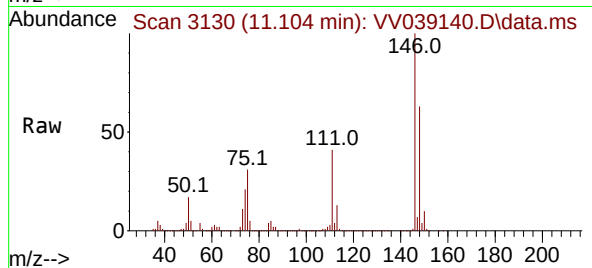
Tgt Ion:146 Resp: 1970594

Ion Ratio Lower Upper

146 100

111 41.1 20.9 62.8

148 63.3 31.8 95.3



#88

1,4-Dichlorobenzene

Concen: 91.172 ug/l

RT: 11.194 min Scan# 3158

Delta R.T. -0.000 min

Lab File: VV039140.D

Acq: 22 Sep 2025 13:49

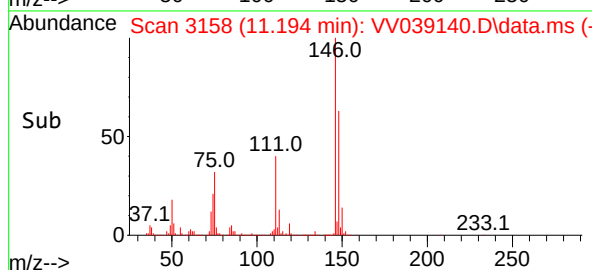
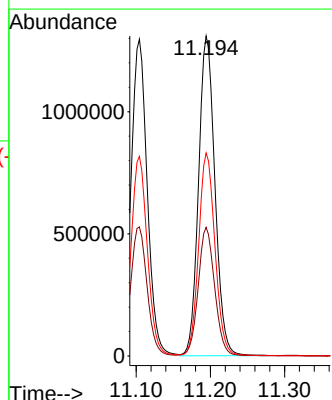
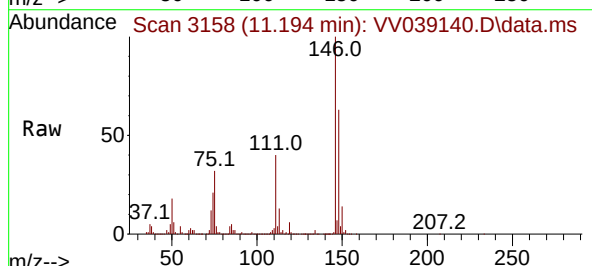
Tgt Ion:146 Resp: 2008676

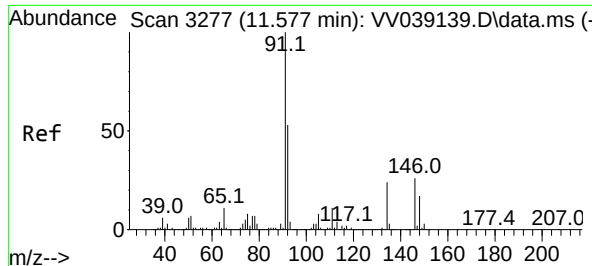
Ion Ratio Lower Upper

146 100

111 40.0 20.3 60.8

148 63.3 31.4 94.2





#89

n-Butylbenzene

Concen: 118.754 ug/l

RT: 11.577 min Scan# 31

Delta R.T. -0.000 min

Lab File: VV039140.D

Acq: 22 Sep 2025 13:49

Instrument :

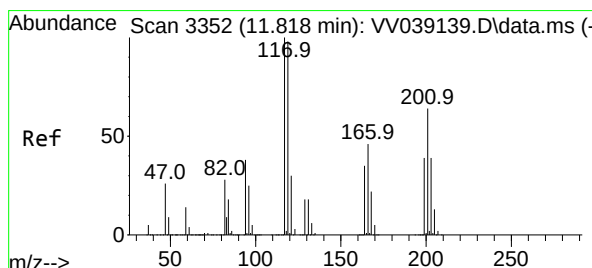
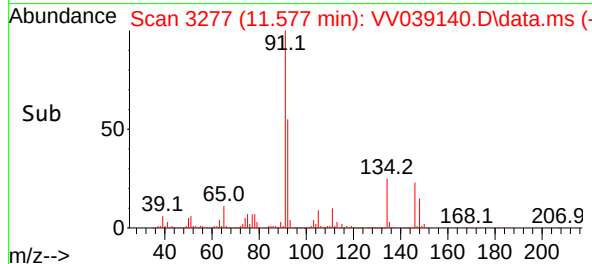
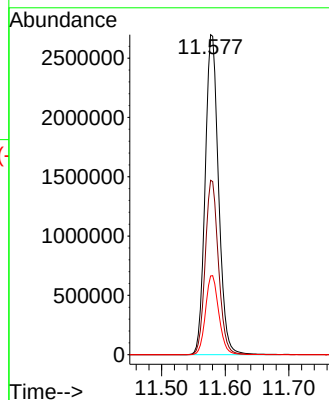
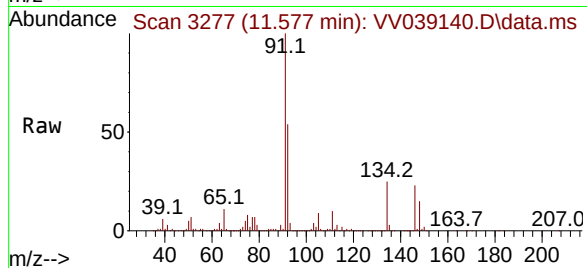
MSVOA_V

ClientSampleId :

VSTDICC100

Tgt Ion: 91 Resp: 3939852

Ion	Ratio	Lower	Upper
91	100		
92	54.0	26.6	79.8
134	24.6	12.1	36.3



#90

Hexachloroethane

Concen: 90.794 ug/l

RT: 11.818 min Scan# 3352

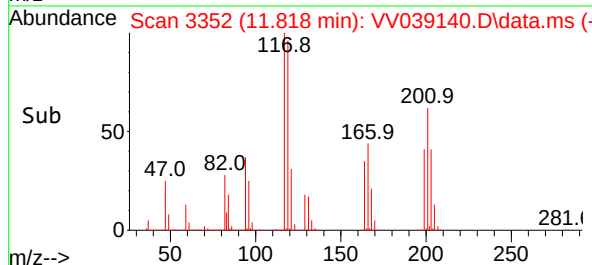
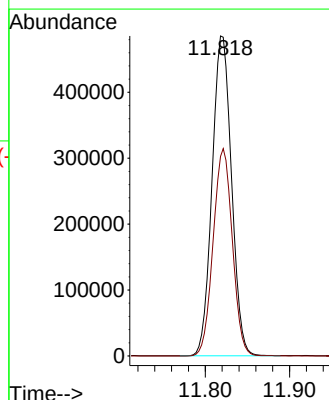
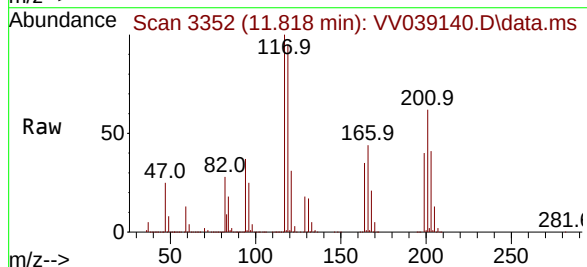
Delta R.T. -0.000 min

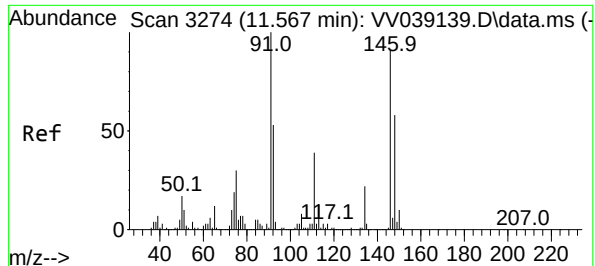
Lab File: VV039140.D

Acq: 22 Sep 2025 13:49

Tgt Ion: 117 Resp: 776688

Ion	Ratio	Lower	Upper
117	100		
201	64.0	32.3	96.8

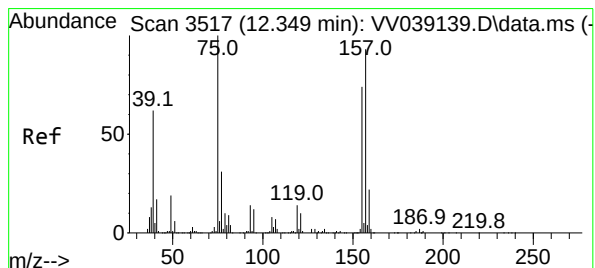
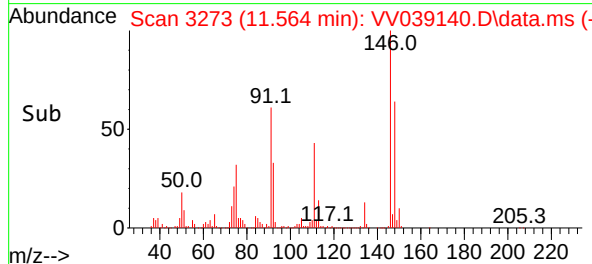
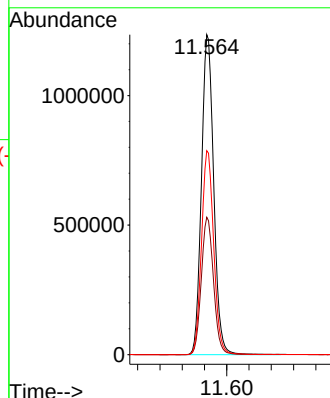
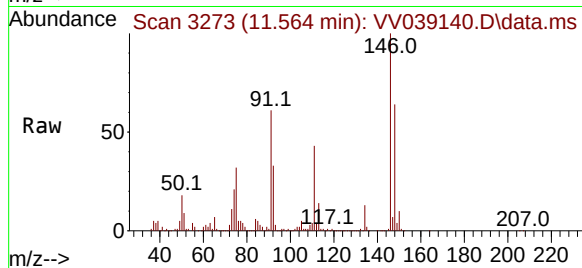




#91
1,2-Dichlorobenzene
Concen: 101.282 ug/l
RT: 11.564 min Scan# 311
Delta R.T. -0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

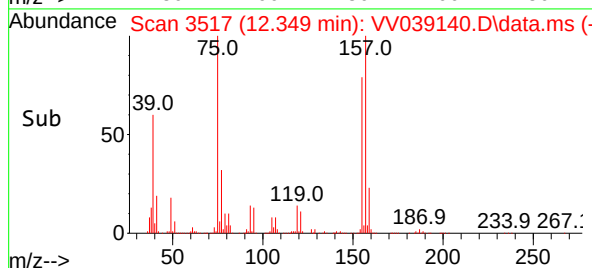
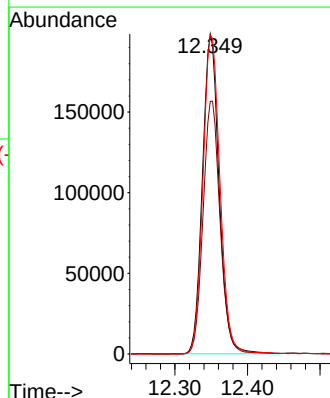
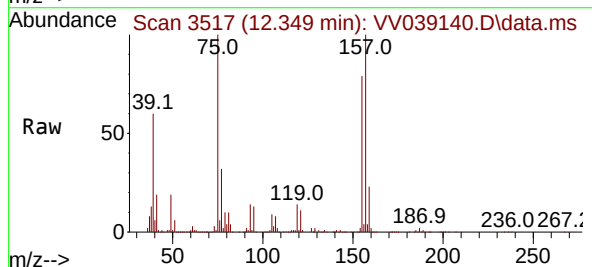
Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

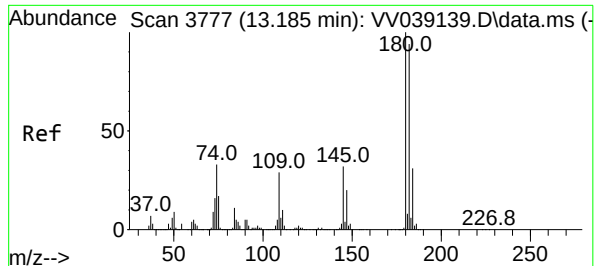
Tgt Ion:146 Resp: 1886394
Ion Ratio Lower Upper
146 100
111 42.9 21.5 64.5
148 63.5 31.9 95.7



#92
1,2-Dibromo-3-Chloropropane
Concen: 100.015 ug/l
RT: 12.349 min Scan# 3517
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 75 Resp: 316446
Ion Ratio Lower Upper
75 100
155 81.0 38.6 115.8
157 102.1 49.5 148.3





#93

1,2,4-Trichlorobenzene

Concen: 116.564 ug/l

RT: 13.185 min Scan# 3777

Delta R.T. -0.000 min

Lab File: VV039140.D

Acq: 22 Sep 2025 13:49

Instrument :

MSVOA_V

ClientSampleId :

VSTDICC100

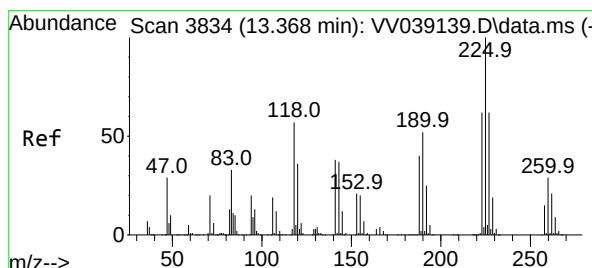
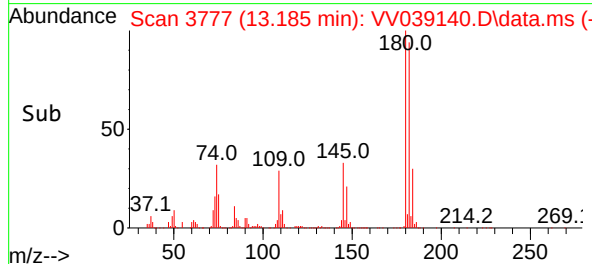
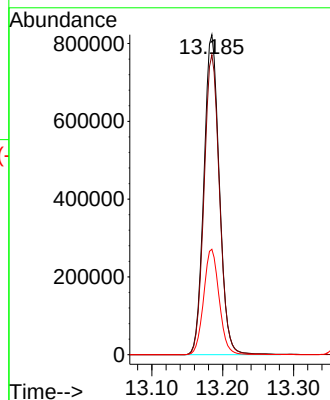
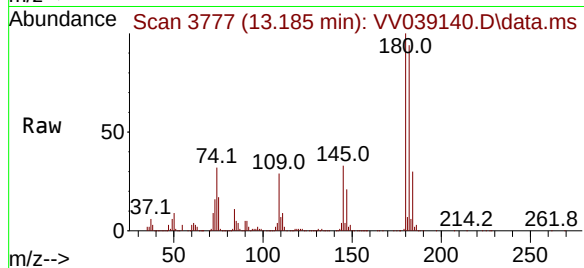
Tgt Ion:180 Resp: 1244510

Ion Ratio Lower Upper

180 100

182 94.2 47.1 141.4

145 33.1 16.3 48.8



#94

Hexachlorobutadiene

Concen: 94.597 ug/l

RT: 13.368 min Scan# 3834

Delta R.T. -0.000 min

Lab File: VV039140.D

Acq: 22 Sep 2025 13:49

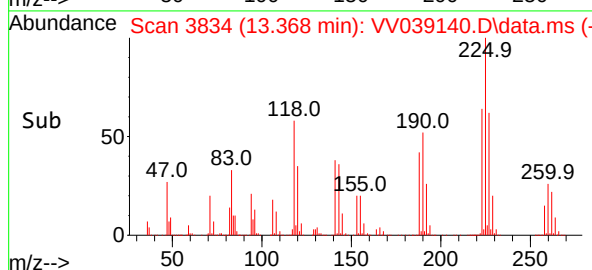
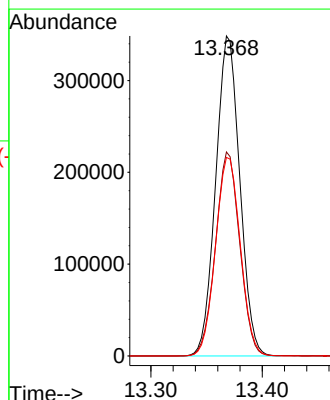
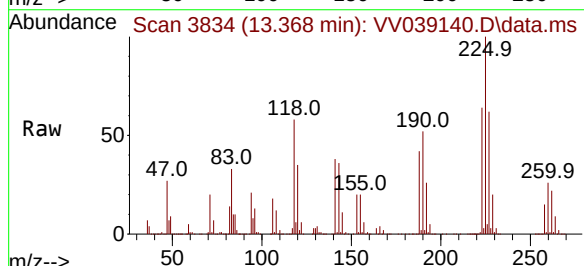
Tgt Ion:225 Resp: 524789

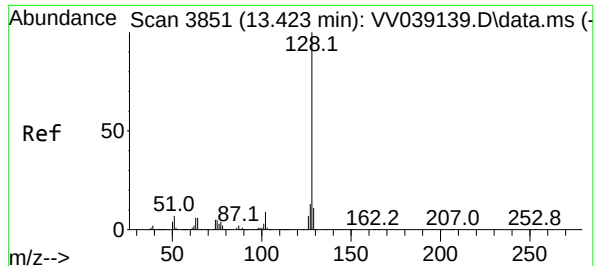
Ion Ratio Lower Upper

225 100

223 64.0 31.6 94.7

227 63.7 31.8 95.4

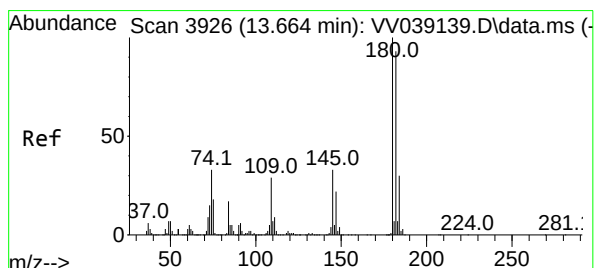
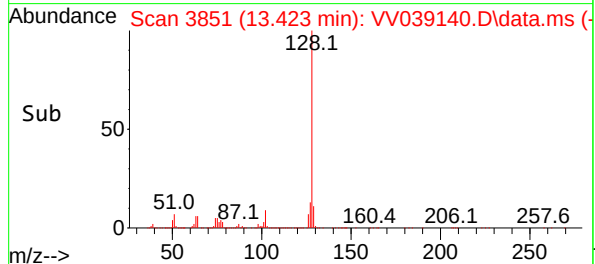
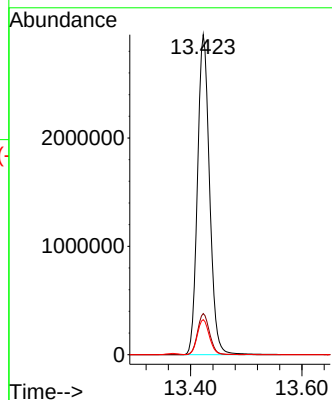
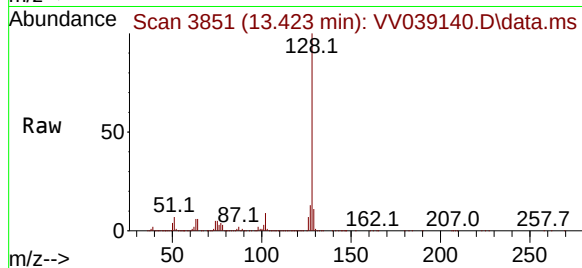




#95
Naphthalene
Concen: 129.371 ug/l
RT: 13.423 min Scan# 3851
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

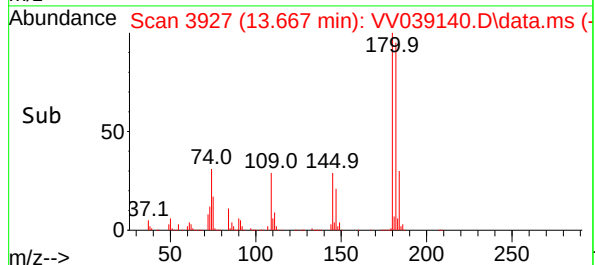
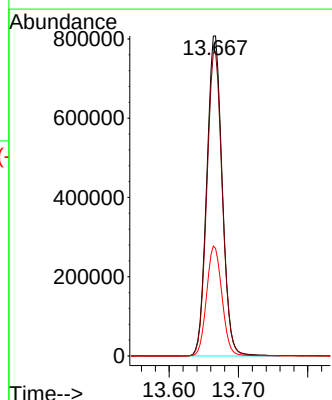
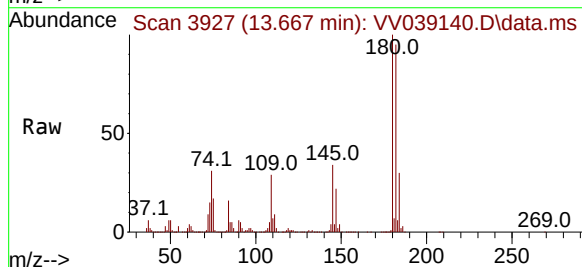
Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion:128 Resp: 4442612
Ion Ratio Lower Upper
128 100
127 12.9 10.3 15.5
129 10.9 8.6 13.0



#96
1,2,3-Trichlorobenzene
Concen: 114.143 ug/l
RT: 13.667 min Scan# 3927
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion:180 Resp: 1246406
Ion Ratio Lower Upper
180 100
182 95.3 46.9 140.8
145 34.2 17.0 51.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
 Data File : VV039142.D
 Acq On : 22 Sep 2025 15:37
 Operator : SY/MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
 Supervised By :Semsettin Yesilyurt 09/26/2025

Quant Time: Sep 24 07:25:48 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 24 07:14:23 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.596	168	492799	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.529	114	835334	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.773	117	807740	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	425480	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.947	65	45267	6.347	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery =	12.700%#		
35) Dibromofluoromethane	4.503	113	37959	5.653	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery =	11.300%#		
50) Toluene-d8	7.239	98	117860	5.976	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery =	11.960%#		
62) 4-Bromofluorobenzene	10.008	95	39819	4.904	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery =	9.800%#		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.121	85	38031	4.875	ug/l	93
3) Chloromethane	1.230	50	43830	5.234	ug/l	97
4) Vinyl Chloride	1.298	62	45941	5.124	ug/l	99
5) Bromomethane	1.494	94	32301	5.715	ug/l	100
6) Chloroethane	1.558	64	29857	4.506	ug/l	93
7) Trichlorofluoromethane	1.725	101	67248	5.181	ug/l	100
8) Diethyl Ether	1.918	74	25304	5.251	ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.082	101	39608	5.128	ug/l	99
10) Methyl Iodide	2.195	142	31463	4.278	ug/l	95
11) Tert butyl alcohol	2.571	59	40994	27.195	ug/l	97
12) 1,1-Dichloroethene	2.082	96	38859	5.230	ug/l	96
13) Acrolein	2.015	56	6095	23.302	ug/l	98
14) Allyl chloride	2.355	41	70683	5.326	ug/l	96
15) Acrylonitrile	2.677	53	128729	26.639	ug/l	99
16) Acetone	2.121	43	140190	26.199	ug/l	98
17) Carbon Disulfide	2.253	76	121350	5.340	ug/l	99
18) Methyl Acetate	2.381	43	54053	5.115	ug/l	97
19) Methyl tert-butyl Ether	2.712	73	125944	5.319	ug/l	96
20) Methylene Chloride	2.455	84	54859	5.252	ug/l	96
21) trans-1,2-Dichloroethene	2.703	96	41151	5.202	ug/l	98
22) Diisopropyl ether	3.217	45	126181	4.969	ug/l #	64
23) Vinyl Acetate	3.191	43	570043	25.661	ug/l	99
24) 1,1-Dichloroethane	3.117	63	81764	5.265	ug/l	96
25) 2-Butanone	3.879	43	140360	25.002	ug/l	99
26) 2,2-Dichloropropane	3.812	77	68656	5.006	ug/l	99
27) cis-1,2-Dichloroethene	3.825	96	40984	4.698	ug/l	88
28) Bromochloromethane	4.153	49	25874	3.774	ug/l	97
29) Tetrahydrofuran	4.243	42	86190	24.110	ug/l	94
30) Chloroform	4.281	83	86066	5.308	ug/l	99
31) Cyclohexane	4.580	56	69326	5.450	ug/l #	94
32) 1,1,1-Trichloroethane	4.513	97	74539	5.310	ug/l	95
36) 1,1-Dichloropropene	4.744	75	44786	4.379	ug/l	99
37) Ethyl Acetate	3.995	43	60285	4.805	ug/l #	73
38) Carbon Tetrachloride	4.732	117	61498	4.992	ug/l	96
39) Methylcyclohexane	6.047	83	56805	4.633	ug/l	92
40) Benzene	5.014	78	163948	4.959	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
 Data File : VV039142.D
 Acq On : 22 Sep 2025 15:37
 Operator : SY/MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :

MSVOA_V

ClientSampleId :

VSTDICC005

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025

Supervised By :Semsettin Yesilyurt 09/26/2025

Quant Time: Sep 24 07:25:48 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M

Quant Title : SW846 8260

QLast Update : Wed Sep 24 07:14:23 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.188	41	17959	4.995	ug/l #	86
42) 1,2-Dichloroethane	5.047	62	57857	4.994	ug/l	96
43) Isopropyl Acetate	5.204	43	77935	4.509	ug/l #	93
44) Trichloroethene	5.838	130	38395	5.033	ug/l	89
45) 1,2-Dichloropropane	6.098	63	39327	4.786	ug/l	100
46) Dibromomethane	6.233	93	31863	5.066	ug/l	98
47) Bromodichloromethane	6.429	83	64039	4.925	ug/l	95
48) Methyl methacrylate	6.313	41	29705	3.757	ug/l	93
49) 1,4-Dioxane	6.307	88	8999	72.413	ug/l #	79
51) 4-Methyl-2-Pentanone	7.153	43	255889	23.155	ug/l	99
52) Toluene	7.313	92	94414	4.925	ug/l	99
53) t-1,3-Dichloropropene	7.583	75	53878	4.755	ug/l	94
54) cis-1,3-Dichloropropene	6.957	75	58800	4.700	ug/l	98
55) 1,1,2-Trichloroethane	7.764	97	43788	5.094	ug/l	99
56) Ethyl methacrylate	7.722	69	42598	4.173	ug/l	97
57) 1,3-Dichloropropane	7.937	76	63818	4.705	ug/l	99
58) 2-Chloroethyl Vinyl ether	6.818	63	81984	23.077	ug/l	100
59) 2-Hexanone	8.069	43	179185	22.071	ug/l	88
60) Dibromochloromethane	8.169	129	49953	5.100	ug/l	96
61) 1,2-Dibromoethane	8.278	107	44729	5.088	ug/l	98
64) Tetrachloroethene	7.899	164	34795	5.143	ug/l	98
65) Chlorobenzene	8.805	112	114424	5.086	ug/l	98
66) 1,1,1,2-Tetrachloroethane	8.899	131	40690	5.005	ug/l	95
67) Ethyl Benzene	8.940	91	157790	4.633	ug/l	97
68) m/p-Xylenes	9.066	106	115177	8.762	ug/l	98
69) o-Xylene	9.471	106	51281	4.406	ug/l	100
70) Styrene	9.490	104	83873	4.836	ug/l	96
71) Bromoform	9.657	173	31133	4.903	ug/l #	97
73) Isopropylbenzene	9.857	105	140251	4.545	ug/l	99
74) N-amyl acetate	9.731	43	54436	4.422	ug/l	98
75) 1,1,2,2-Tetrachloroethane	10.165	83	71656	5.299	ug/l	99
76) 1,2,3-Trichloropropane	10.201	75	51079m	5.273	ug/l	
77) Bromobenzene	10.146	156	39428	4.924	ug/l	95
78) n-propylbenzene	10.281	91	168794	4.492	ug/l	99
79) 2-Chlorotoluene	10.349	91	110002	4.892	ug/l	99
80) 1,3,5-Trimethylbenzene	10.468	105	114749	4.474	ug/l	98
81) trans-1,4-Dichloro-2-b...	9.934	75	18154	4.499	ug/l	90
82) 4-Chlorotoluene	10.468	91	122429	4.695	ug/l	99
83) tert-Butylbenzene	10.789	119	117310	4.586	ug/l	99
84) 1,2,4-Trimethylbenzene	10.841	105	108157	4.343	ug/l	96
85) sec-Butylbenzene	11.014	105	153526	4.525	ug/l	99
86) p-Isopropyltoluene	11.169	119	127377	4.511	ug/l	98
87) 1,3-Dichlorobenzene	11.111	146	82673	5.102	ug/l	98
88) 1,4-Dichlorobenzene	11.198	146	91001	5.082	ug/l	94
89) n-Butylbenzene	11.583	91	119822	4.443	ug/l	96
90) Hexachloroethane	11.818	117	35762	5.143	ug/l	95
91) 1,2-Dichlorobenzene	11.570	146	76477	5.052	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	12.358	75	14163	5.211	ug/l	92
93) 1,2,4-Trichlorobenzene	13.191	180	39775	4.583	ug/l	100
94) Hexachlorobutadiene	13.368	225	22549	5.001	ug/l	98
95) Naphthalene	13.429	128	113395	4.062	ug/l	99
96) 1,2,3-Trichlorobenzene	13.670	180	38315	4.317	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039142.D
Acq On : 22 Sep 2025 15:37
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

Quant Time: Sep 24 07:25:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

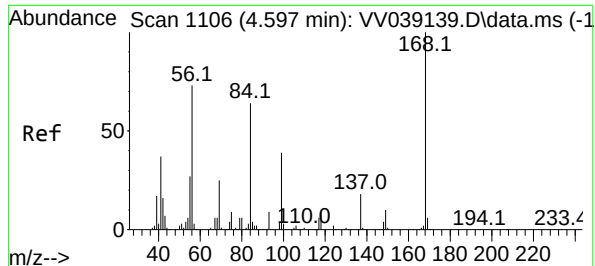
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

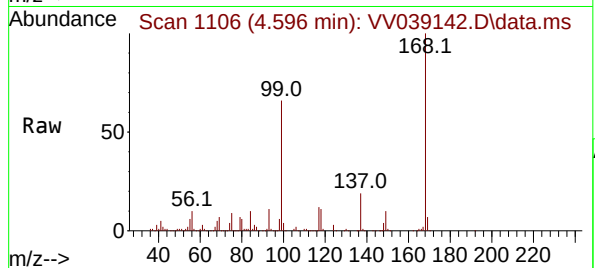
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.596 min Scan# 1106
Delta R.T. -0.001 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

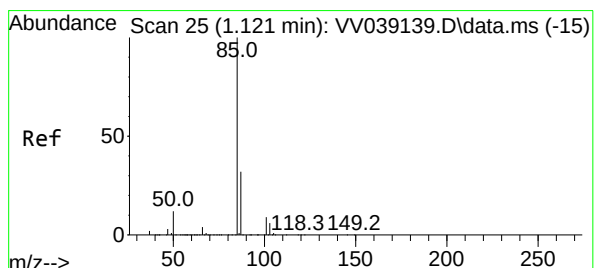
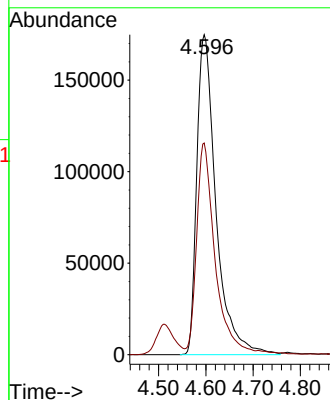
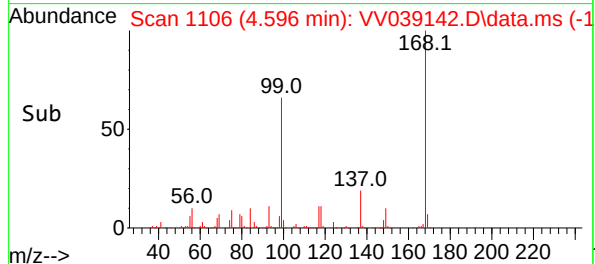
Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005



Tgt Ion:168 Resp: 492799
Ion Ratio Lower Upper
168 100
99 65.6 49.6 74.4

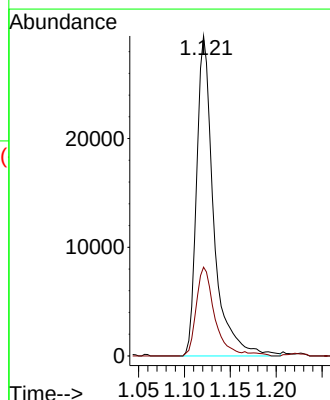
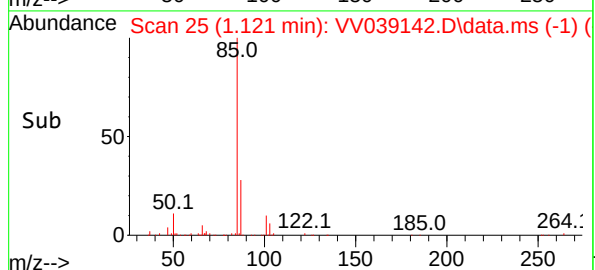
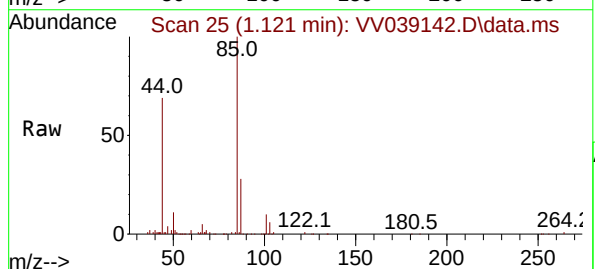
Manual Integrations
APPROVED

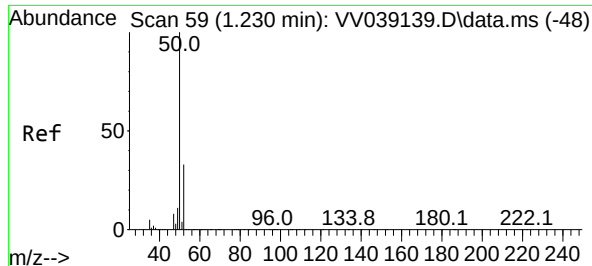
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#2
Dichlorodifluoromethane
Concen: 4.875 ug/l
RT: 1.121 min Scan# 25
Delta R.T. -0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 85 Resp: 38031
Ion Ratio Lower Upper
85 100
87 27.7 16.0 47.9





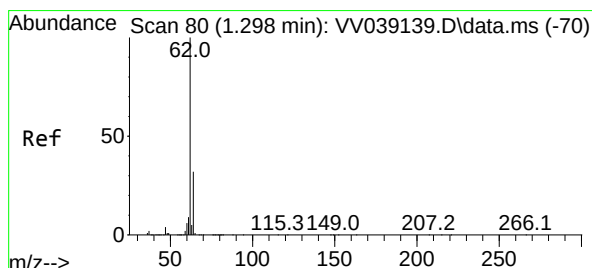
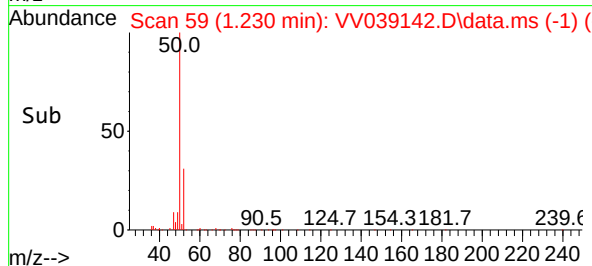
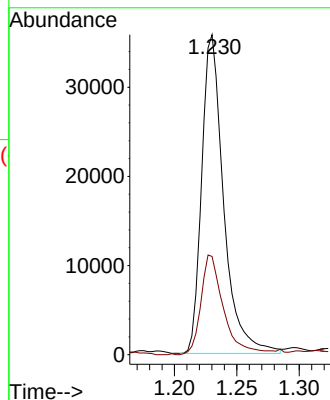
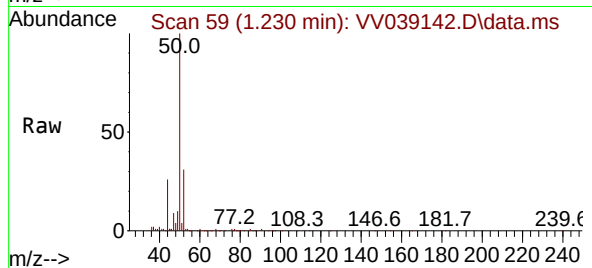
#3
Chloromethane
Concen: 5.234 ug/l
RT: 1.230 min Scan# 59
Delta R.T. -0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Tgt Ion: 50 Resp: 43830
Ion Ratio Lower Upper
50 100
52 30.8 26.0 39.0

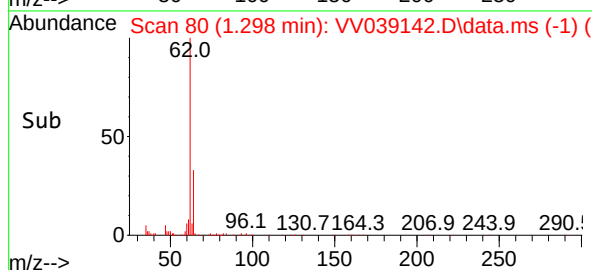
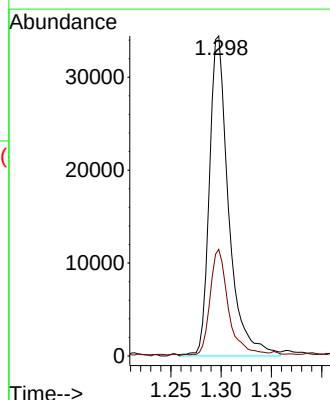
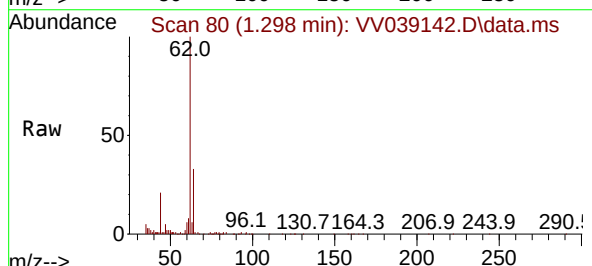
Manual Integrations
APPROVED

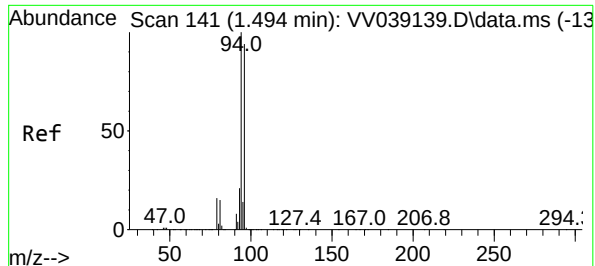
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#4
Vinyl Chloride
Concen: 5.124 ug/l
RT: 1.298 min Scan# 80
Delta R.T. -0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 62 Resp: 45941
Ion Ratio Lower Upper
62 100
64 32.8 25.6 38.4





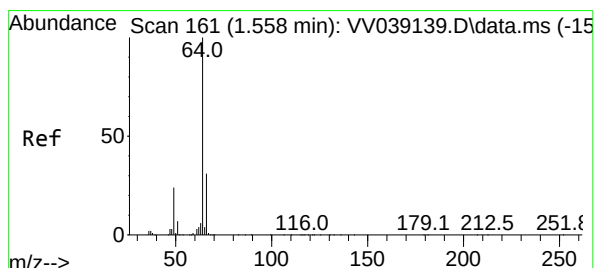
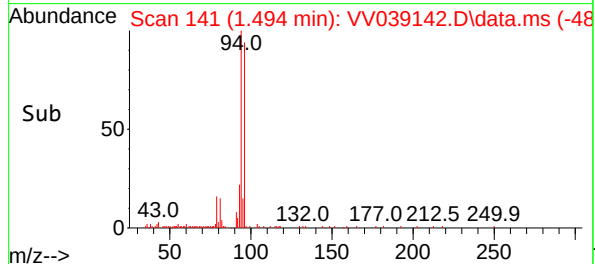
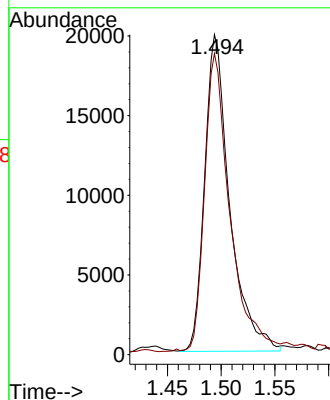
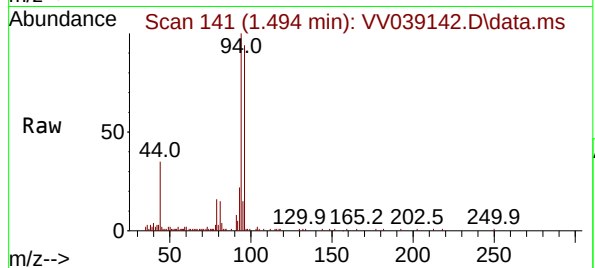
#5
Bromomethane
Concen: 5.715 ug/l
RT: 1.494 min Scan# 141
Delta R.T. -0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Tgt Ion: 94 Resp: 3230
Ion Ratio Lower Upper
94 100
96 93.8 74.9 112.3

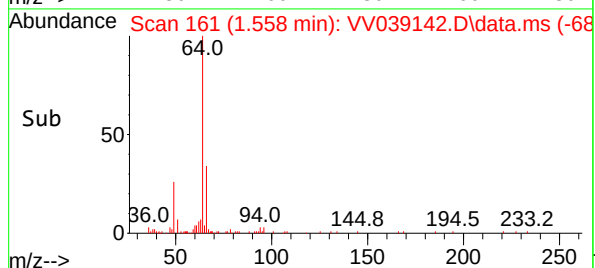
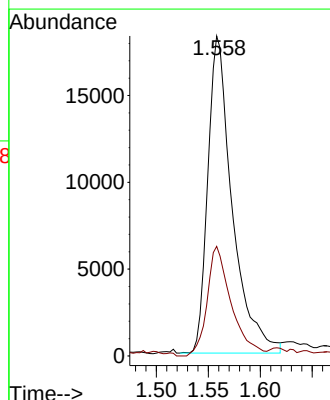
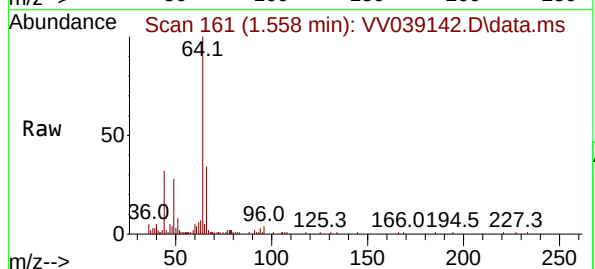
Manual Integrations
APPROVED

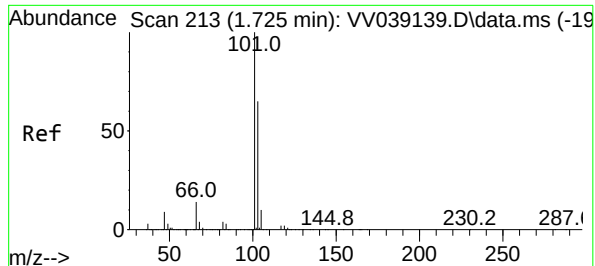
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#6
Chloroethane
Concen: 4.506 ug/l
RT: 1.558 min Scan# 161
Delta R.T. 0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 64 Resp: 29857
Ion Ratio Lower Upper
64 100
66 34.6 24.6 36.8





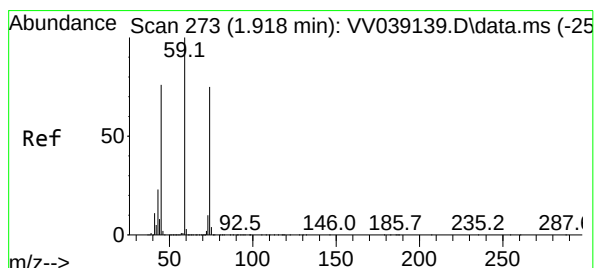
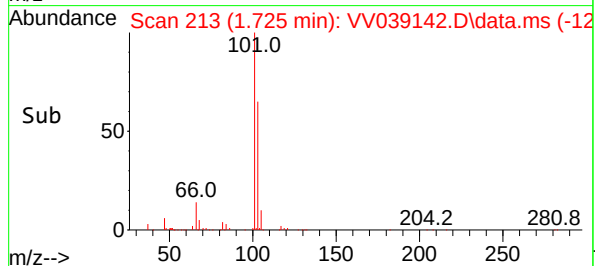
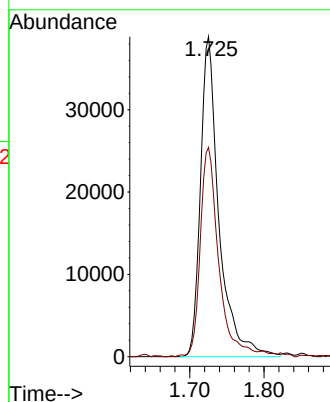
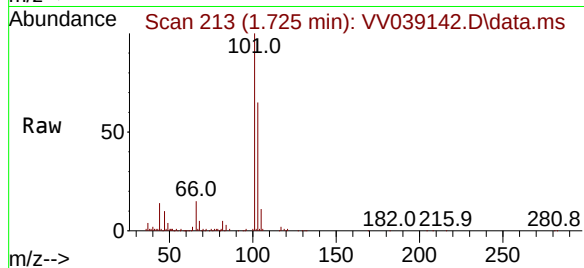
#7
Trichlorofluoromethane
Concen: 5.181 ug/l
RT: 1.725 min Scan# 213
Delta R.T. -0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Tgt Ion:101 Resp: 67248
Ion Ratio Lower Upper
101 100
103 64.9 52.0 78.0

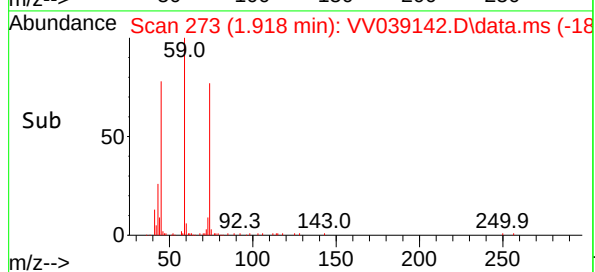
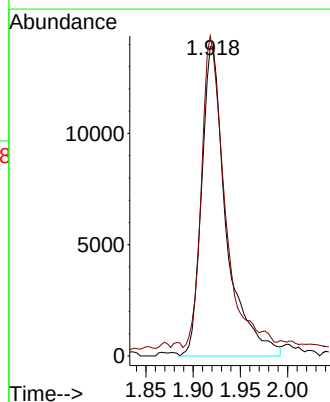
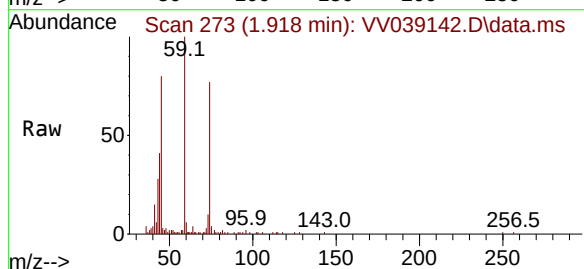
Manual Integrations
APPROVED

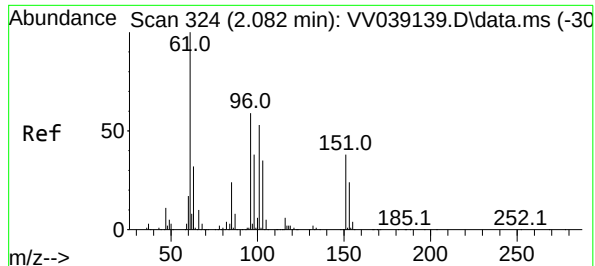
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#8
Diethyl Ether
Concen: 5.251 ug/l
RT: 1.918 min Scan# 273
Delta R.T. -0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 74 Resp: 25304
Ion Ratio Lower Upper
74 100
45 94.7 49.6 148.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.128 ug/l

RT: 2.082 min Scan# 31

Delta R.T. -0.000 min

Lab File: VV039142.D

Acq: 22 Sep 2025 15:37

Instrument :

MSVOA_V

ClientSampleId :

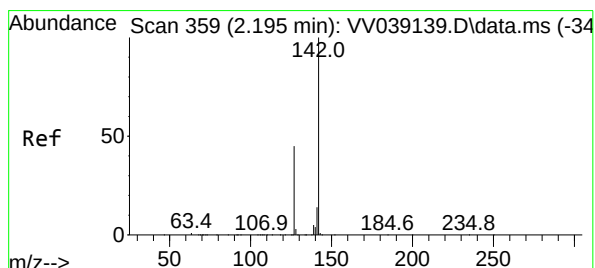
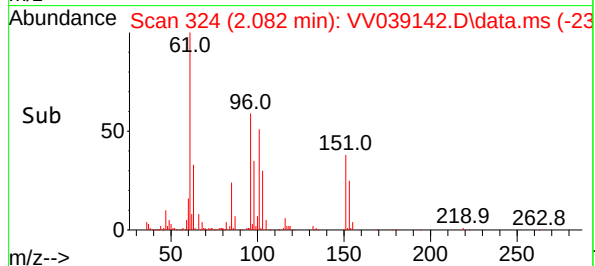
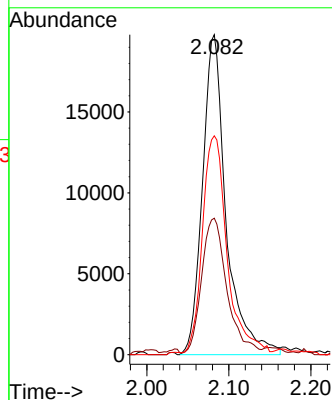
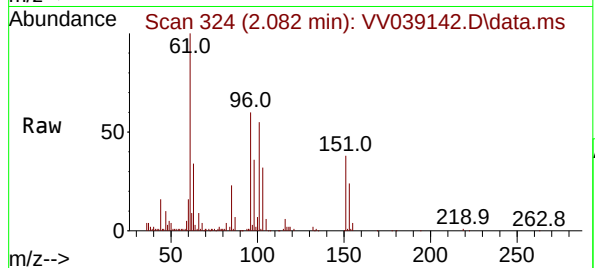
VSTDIC005

Tgt Ion:	101	Resp:	39608
Ion	Ratio	Lower	Upper
101	100		
85	44.6	36.2	54.2
151	69.9	56.3	84.5

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#10

Methyl Iodide

Concen: 4.278 ug/l

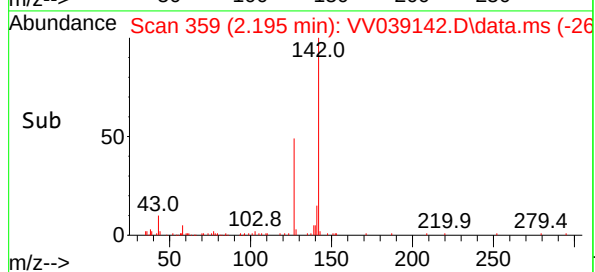
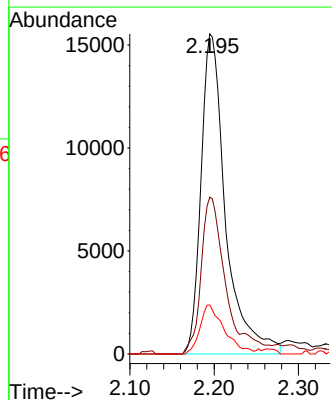
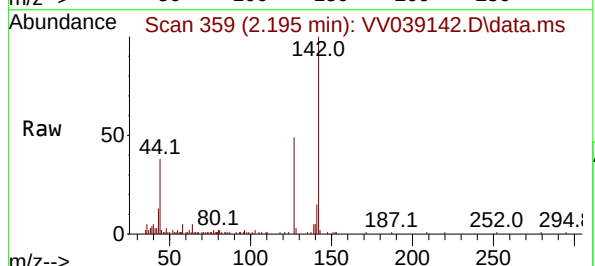
RT: 2.195 min Scan# 359

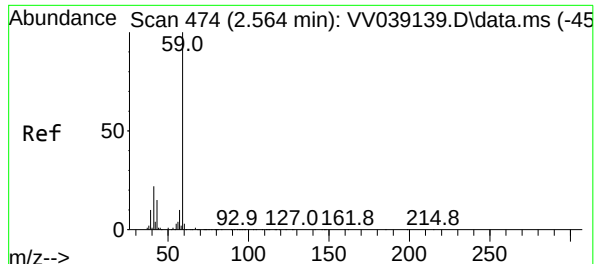
Delta R.T. -0.000 min

Lab File: VV039142.D

Acq: 22 Sep 2025 15:37

Tgt Ion:	142	Resp:	31463
Ion	Ratio	Lower	Upper
142	100		
127	49.4	36.3	54.5
141	15.2	11.2	16.8





#11

Tert butyl alcohol

Concen: 27.195 ug/l

RT: 2.571 min Scan# 41

Delta R.T. 0.006 min

Lab File: VV039142.D

Acq: 22 Sep 2025 15:37

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC005

Tgt Ion: 59 Resp: 40994

Ion Ratio Lower Upper

59 100

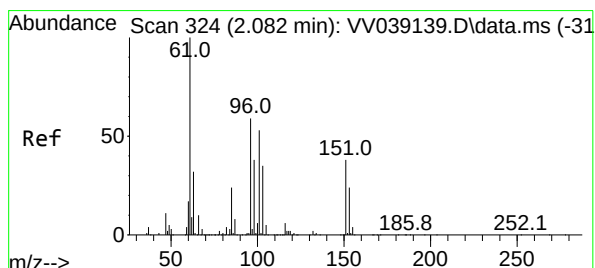
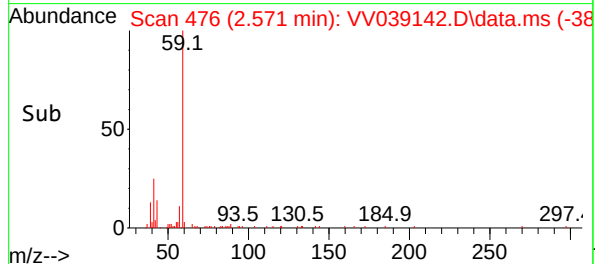
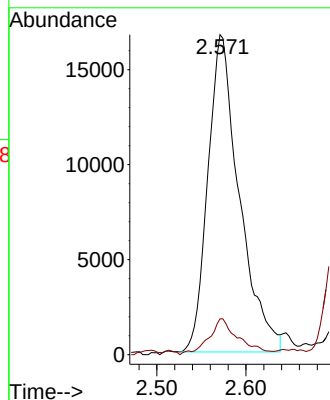
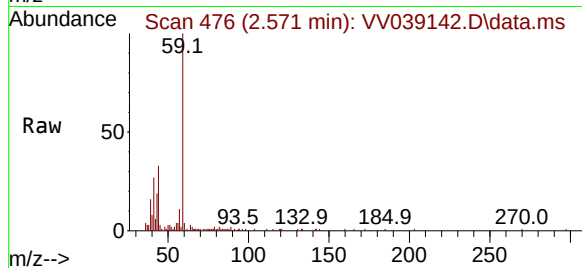
57 10.8 7.8 11.8

Manual Integrations

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Reviewed By :Mahesh Dadoda 09/26/2025

Supervised By :Semsettin Yesilyurt 09/26/2025



#12

1,1-Dichloroethene

Concen: 5.230 ug/l

RT: 2.082 min Scan# 324

Delta R.T. -0.000 min

Lab File: VV039142.D

Acq: 22 Sep 2025 15:37

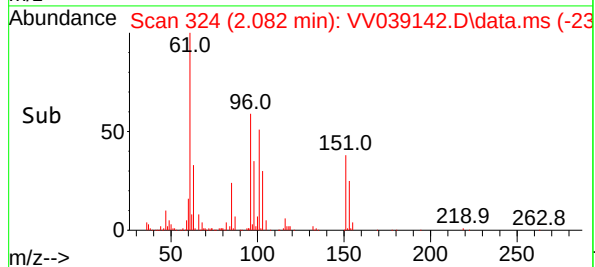
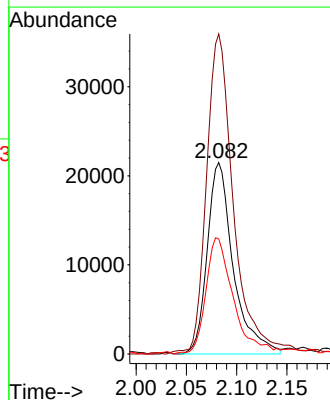
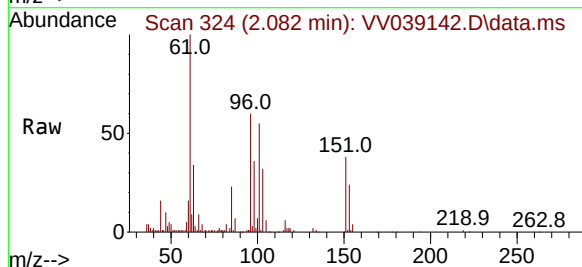
Tgt Ion: 96 Resp: 38859

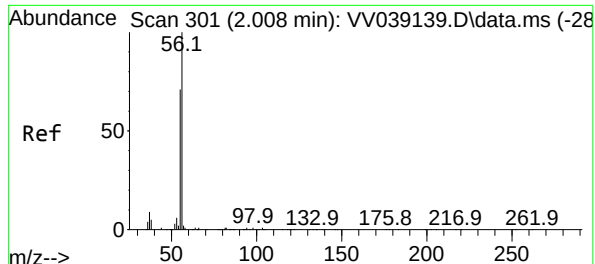
Ion Ratio Lower Upper

96 100

61 165.4 136.0 204.0

98 59.2 51.0 76.6





#13

Acrolein

Concen: 23.302 ug/l

RT: 2.015 min Scan# 301

Delta R.T. 0.006 min

Lab File: VV039142.D

Acq: 22 Sep 2025 15:37

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC005

Tgt Ion: 56 Resp: 6095

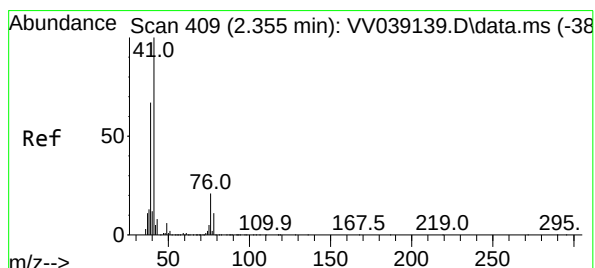
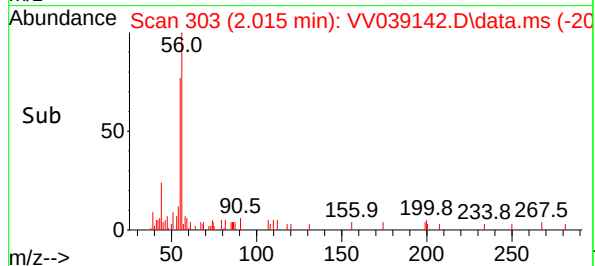
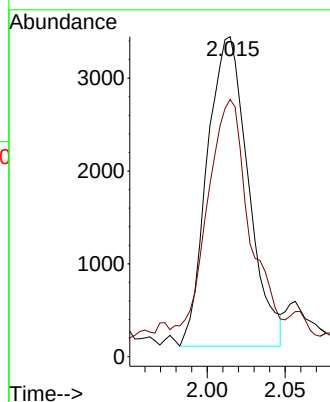
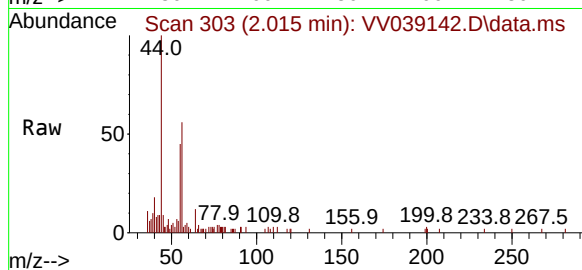
Ion Ratio Lower Upper

56 100

55 72.3 56.2 84.4

Manual Integrations

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Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

#14

Allyl chloride

Concen: 5.326 ug/l

RT: 2.355 min Scan# 409

Delta R.T. -0.000 min

Lab File: VV039142.D

Acq: 22 Sep 2025 15:37

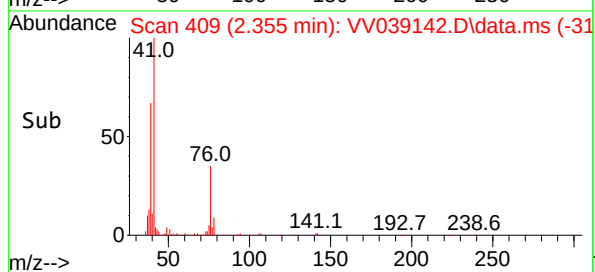
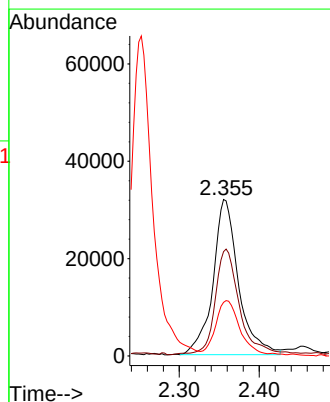
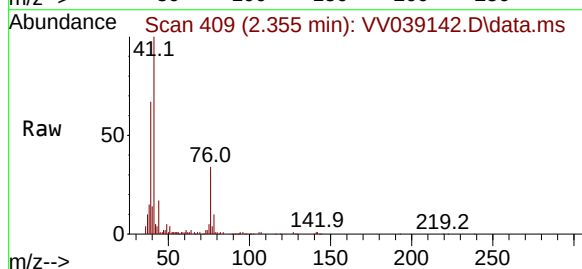
Tgt Ion: 41 Resp: 70683

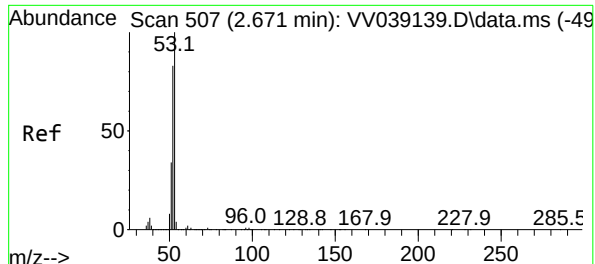
Ion Ratio Lower Upper

41 100

39 65.2 51.0 76.6

76 31.4 28.2 42.4





#15

Acrylonitrile

Concen: 26.639 ug/l

RT: 2.677 min Scan# 507

Delta R.T. 0.006 min

Lab File: VV039142.D

Acq: 22 Sep 2025 15:37

Instrument :

MSVOA_V

ClientSampleId :

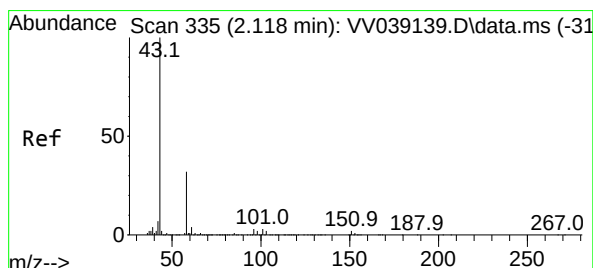
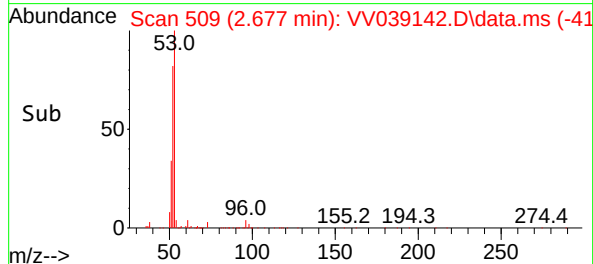
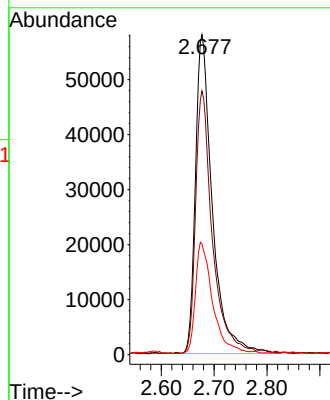
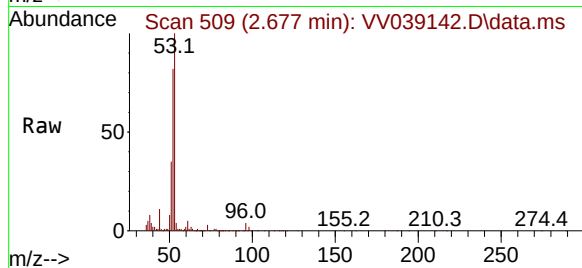
VSTDICC005

Tgt Ion:	53	Resp:	128729
Ion	Ratio	Lower	Upper
53	100		
52	81.4	66.1	99.1
51	35.5	28.5	42.7

Manual Integrations

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Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#16

Acetone

Concen: 26.199 ug/l

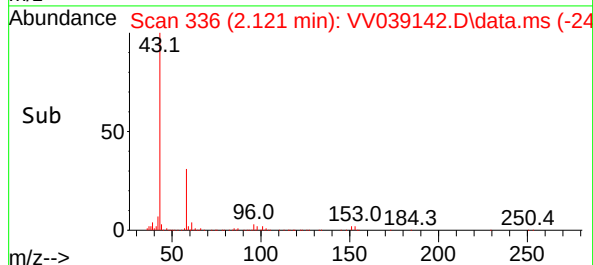
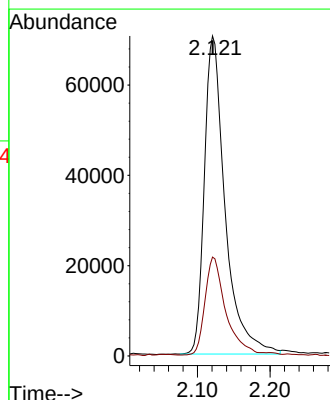
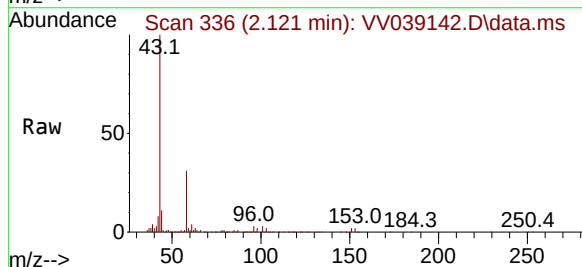
RT: 2.121 min Scan# 336

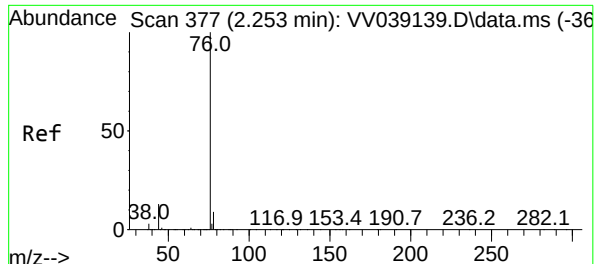
Delta R.T. 0.003 min

Lab File: VV039142.D

Acq: 22 Sep 2025 15:37

Tgt Ion:	43	Resp:	140190
Ion	Ratio	Lower	Upper
43	100		
58	30.8	25.8	38.6





#17

Carbon Disulfide

Concen: 5.340 ug/l

RT: 2.253 min Scan# 31

Delta R.T. -0.000 min

Lab File: VV039142.D

Acq: 22 Sep 2025 15:37

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC005

Tgt Ion: 76 Resp: 121350

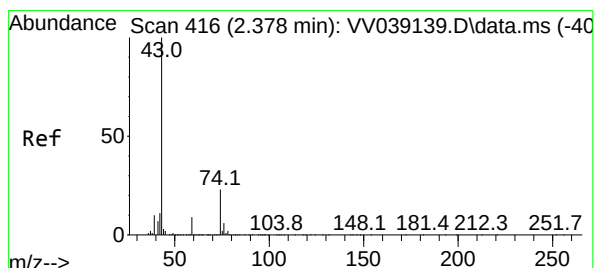
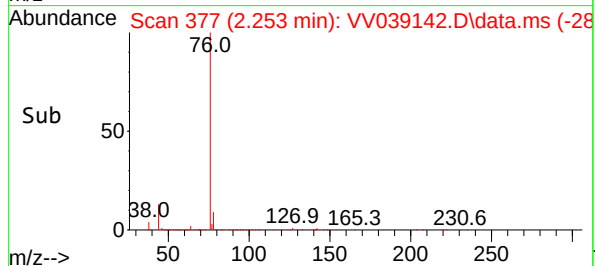
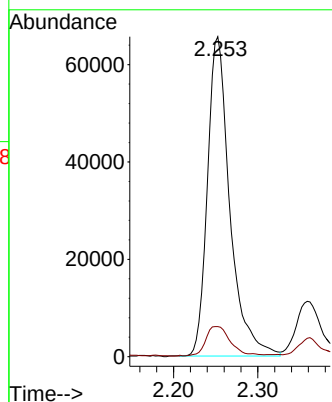
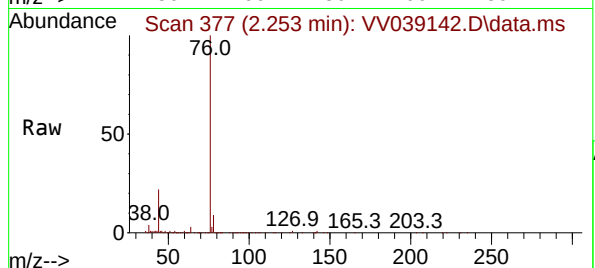
Ion Ratio Lower Upper

76 100

78 9.0 7.4 11.0

Manual Integrations

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Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

#18

Methyl Acetate

Concen: 5.115 ug/l

RT: 2.381 min Scan# 417

Delta R.T. 0.003 min

Lab File: VV039142.D

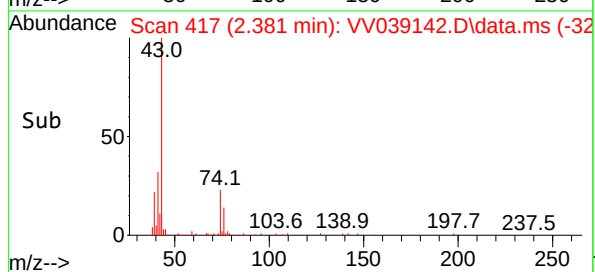
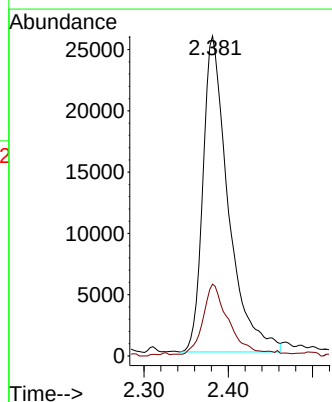
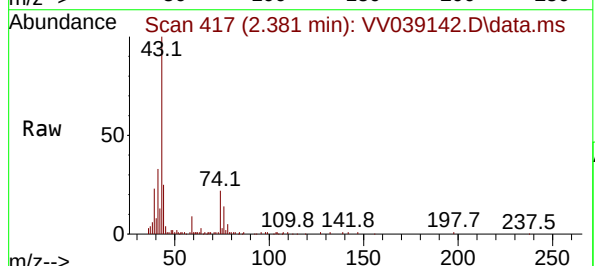
Acq: 22 Sep 2025 15:37

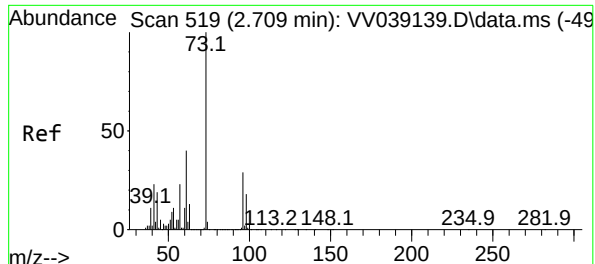
Tgt Ion: 43 Resp: 54053

Ion Ratio Lower Upper

43 100

74 21.7 18.6 27.8





#19

Methyl tert-butyl Ether

Concen: 5.319 ug/l

RT: 2.712 min Scan# 519

Delta R.T. 0.003 min

Lab File: VV039142.D

Acq: 22 Sep 2025 15:37

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC005

Tgt Ion: 73 Resp: 12594

Ion Ratio Lower Upper

73 100

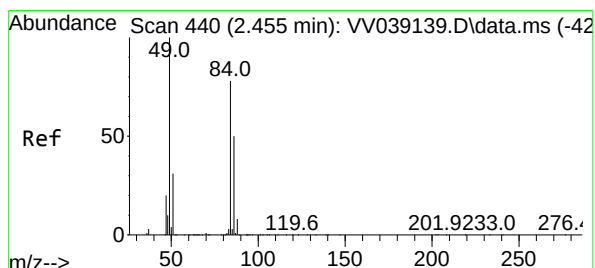
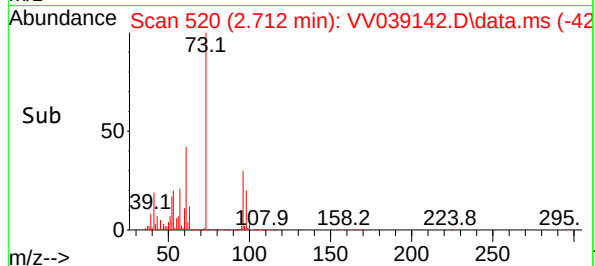
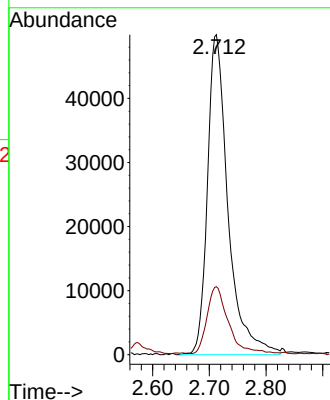
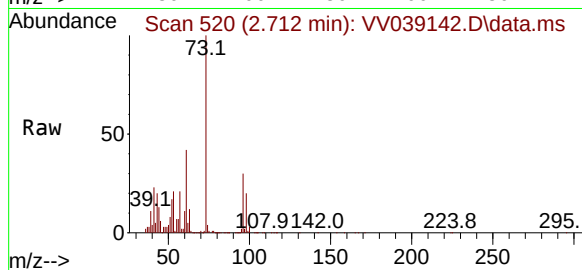
57 20.8 18.2 27.4

Manual Integrations

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Reviewed By :Mahesh Dadoda 09/26/2025

Supervised By :Semsettin Yesilyurt 09/26/2025



#20

Methylene Chloride

Concen: 5.252 ug/l

RT: 2.455 min Scan# 440

Delta R.T. 0.000 min

Lab File: VV039142.D

Acq: 22 Sep 2025 15:37

Tgt Ion: 84 Resp: 54859

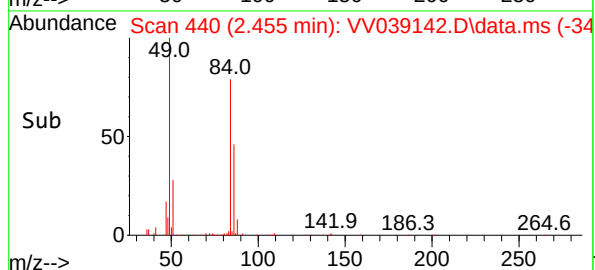
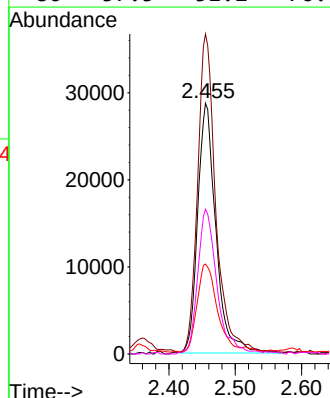
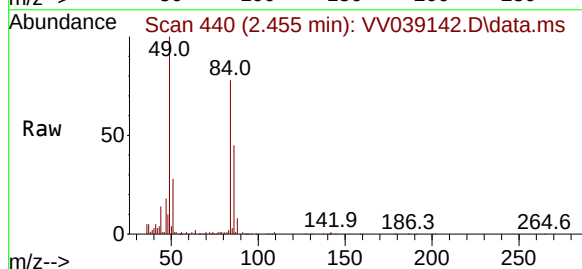
Ion Ratio Lower Upper

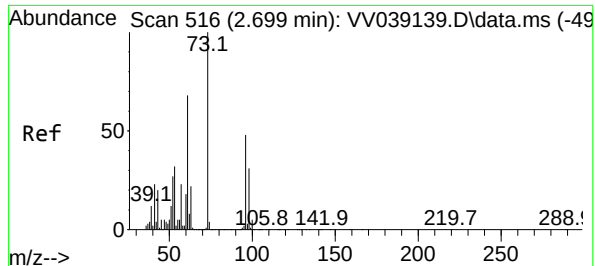
84 100

49 127.4 102.8 154.2

51 35.2 31.9 47.9

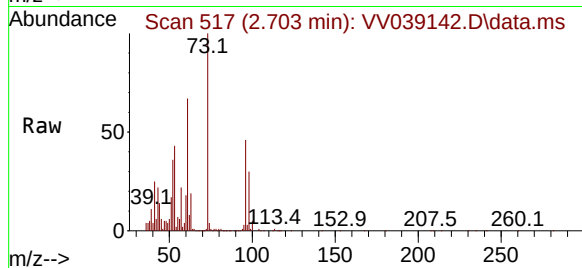
86 57.5 51.2 76.8





#21
trans-1,2-Dichloroethene
Concen: 5.202 ug/l
RT: 2.703 min Scan# 516
Delta R.T. 0.003 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

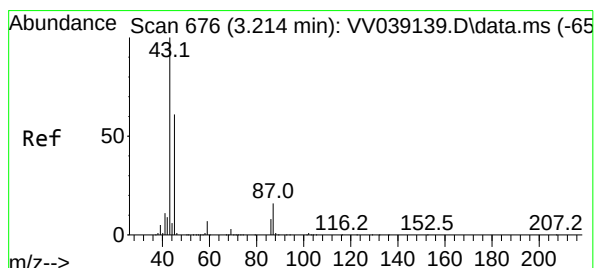
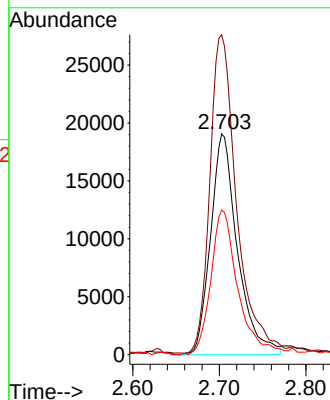
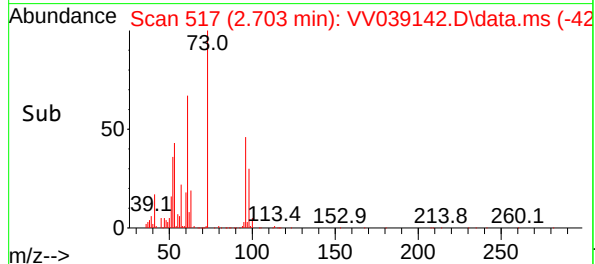
Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005



Tgt Ion: 96 Resp: 4115
Ion Ratio Lower Upper
96 100
61 144.1 112.8 169.2
98 65.5 51.1 76.7

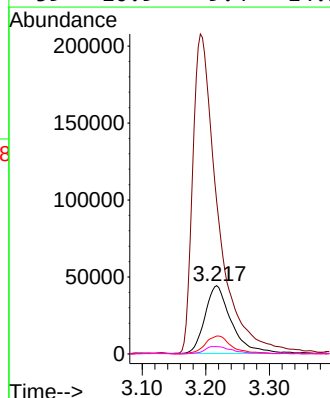
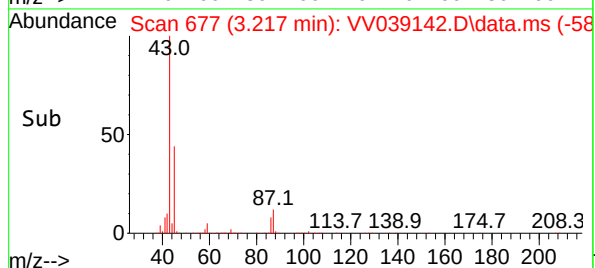
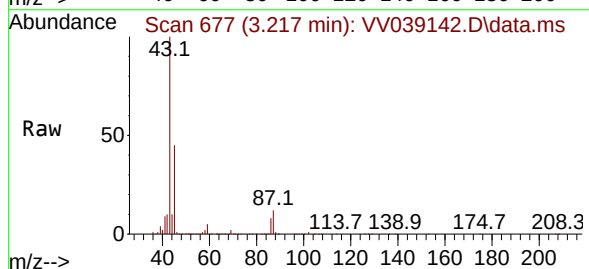
Manual Integrations
APPROVED

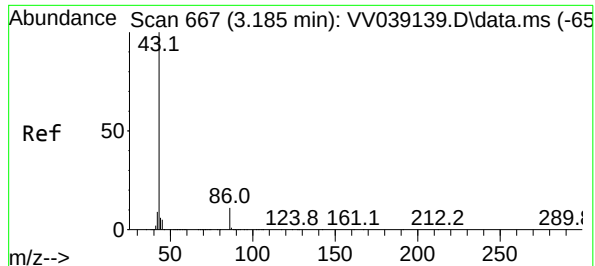
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#22
Diisopropyl ether
Concen: 4.969 ug/l
RT: 3.217 min Scan# 677
Delta R.T. 0.003 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 45 Resp: 126181
Ion Ratio Lower Upper
45 100
43 223.1 130.9 196.3#
87 26.4 21.1 31.7
59 10.9 9.4 14.2





#23

Vinyl Acetate

Concen: 25.661 ug/l

RT: 3.191 min Scan# 669

Delta R.T. 0.006 min

Lab File: VV039142.D

Acq: 22 Sep 2025 15:37

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC005

Tgt Ion: 43 Resp: 57004

Ion Ratio Lower Upper

43 100

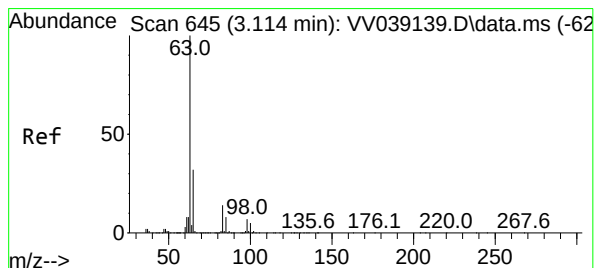
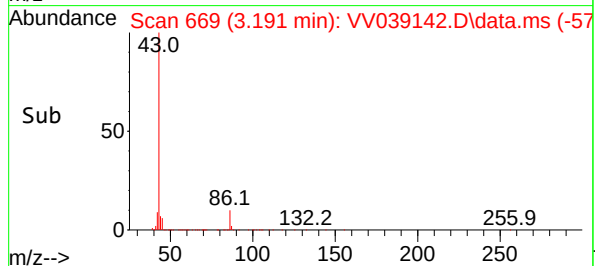
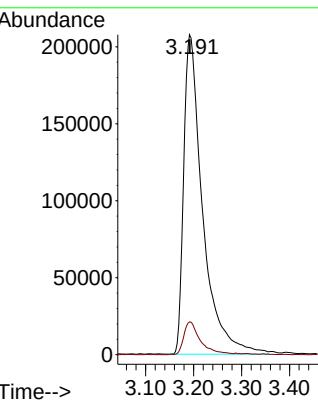
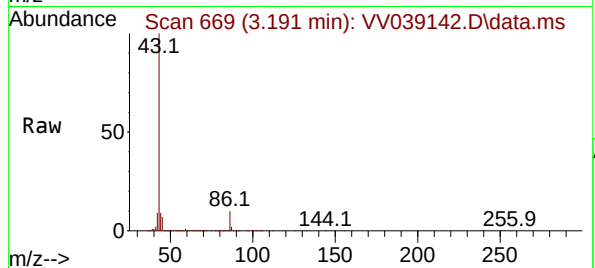
86 10.3 8.4 12.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025

Supervised By :Semsettin Yesilyurt 09/26/2025



#24

1,1-Dichloroethane

Concen: 5.265 ug/l

RT: 3.117 min Scan# 646

Delta R.T. 0.003 min

Lab File: VV039142.D

Acq: 22 Sep 2025 15:37

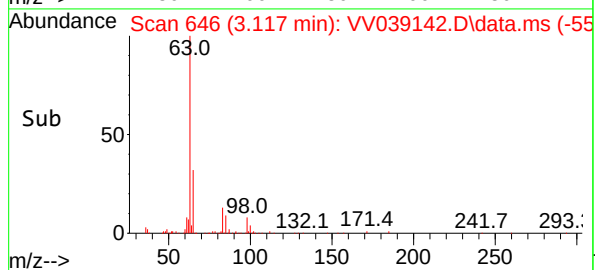
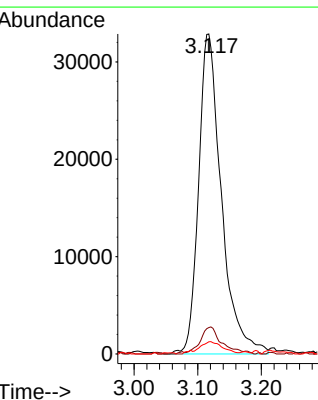
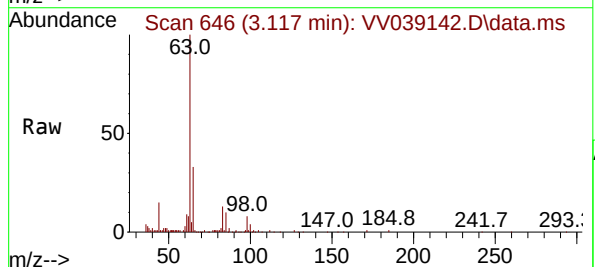
Tgt Ion: 63 Resp: 81764

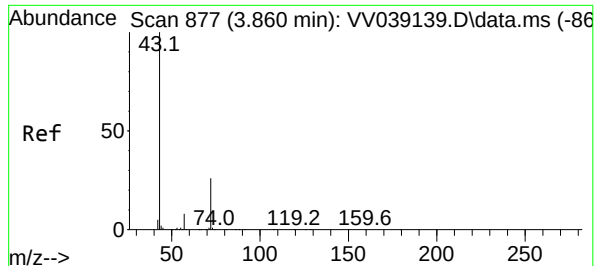
Ion Ratio Lower Upper

63 100

98 8.3 3.4 10.2

100 3.5 2.2 6.6





#25

2-Butanone

Concen: 25.002 ug/l

RT: 3.879 min Scan# 81

Delta R.T. 0.019 min

Lab File: VV039142.D

Acq: 22 Sep 2025 15:37

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC005

Tgt Ion: 43 Resp: 140360

Ion Ratio Lower Upper

43 100

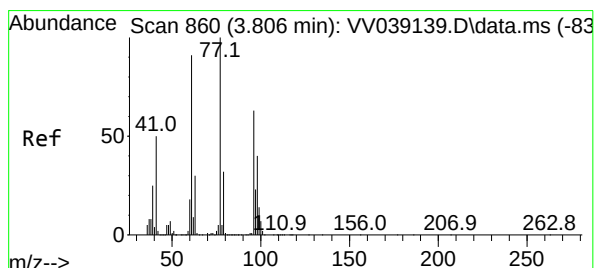
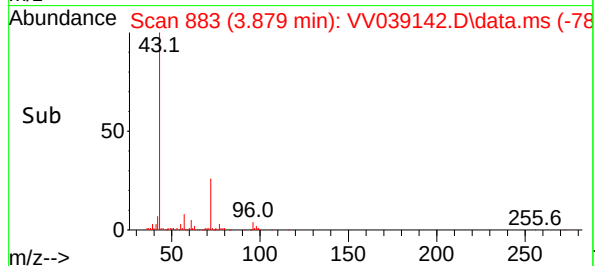
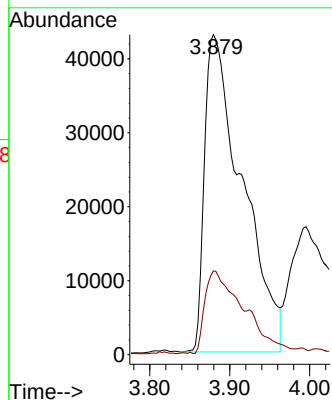
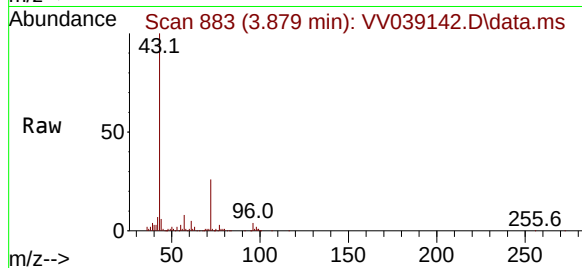
72 25.9 21.0 31.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025

Supervised By :Semsettin Yesilyurt 09/26/2025



#26

2,2-Dichloropropane

Concen: 5.006 ug/l

RT: 3.812 min Scan# 862

Delta R.T. 0.006 min

Lab File: VV039142.D

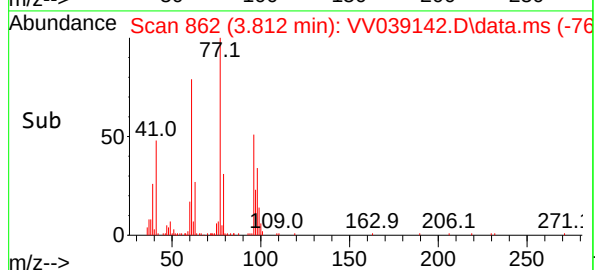
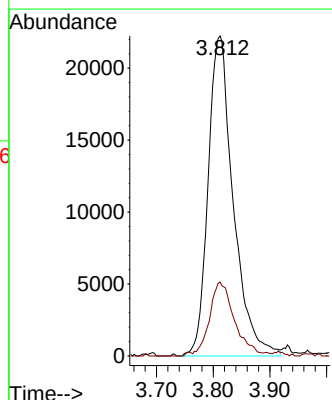
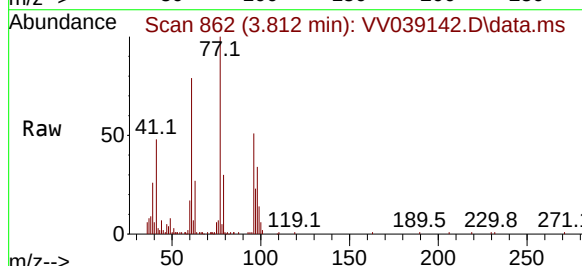
Acq: 22 Sep 2025 15:37

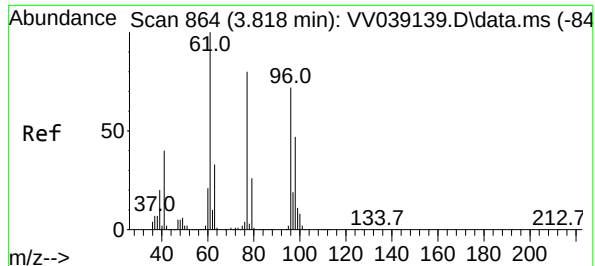
Tgt Ion: 77 Resp: 68656

Ion Ratio Lower Upper

77 100

97 22.7 11.6 34.7





#27

cis-1,2-Dichloroethene

Concen: 4.698 ug/l

RT: 3.825 min Scan# 864

Delta R.T. 0.006 min

Lab File: VV039142.D

Acq: 22 Sep 2025 15:37

Instrument :

MSVOA_V

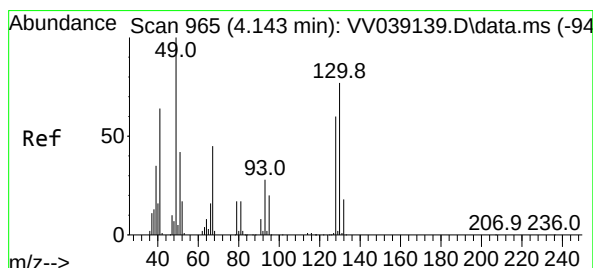
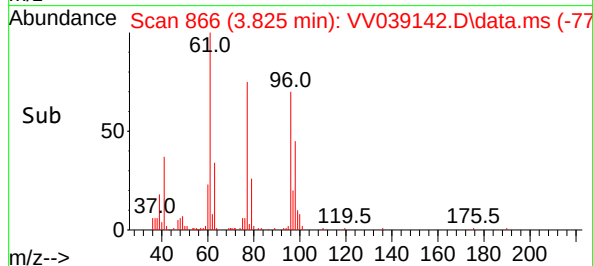
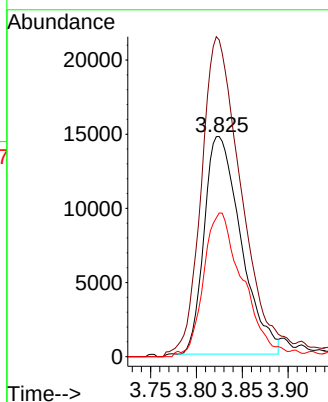
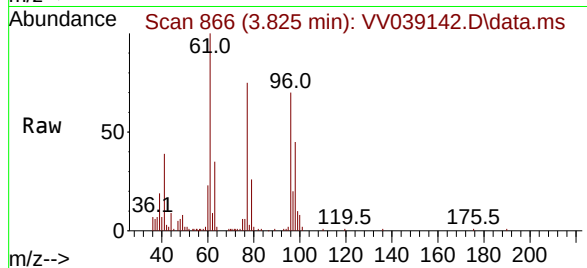
ClientSampleId :

VSTDIC005

Tgt Ion:	96	Resp:	40984
Ion	Ratio	Lower	Upper
96	100		
61	159.9	0.0	286.4
98	70.2	0.0	126.6

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#28

Bromochloromethane

Concen: 3.774 ug/l

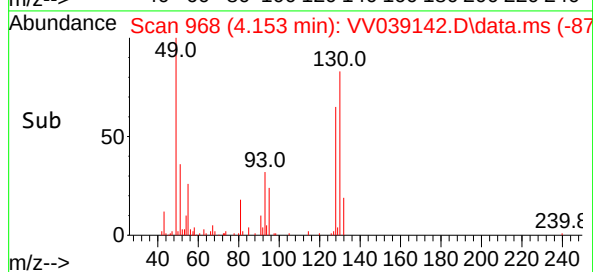
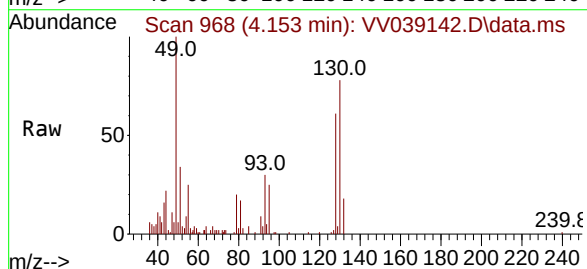
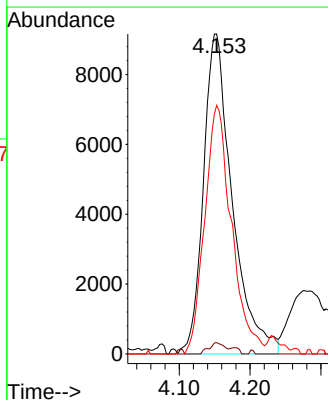
RT: 4.153 min Scan# 968

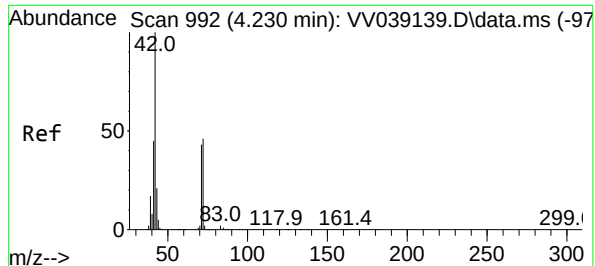
Delta R.T. 0.010 min

Lab File: VV039142.D

Acq: 22 Sep 2025 15:37

Tgt Ion:	49	Resp:	25874
Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	4.2
130	72.2	60.2	90.2





#29

Tetrahydrofuran

Concen: 24.110 ug/l

RT: 4.243 min Scan# 992

Delta R.T. 0.013 min

Lab File: VV039142.D

Acq: 22 Sep 2025 15:37

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC005

Tgt Ion: 42 Resp: 86190

Ion Ratio Lower Upper

42 100

72 41.3 36.3 54.5

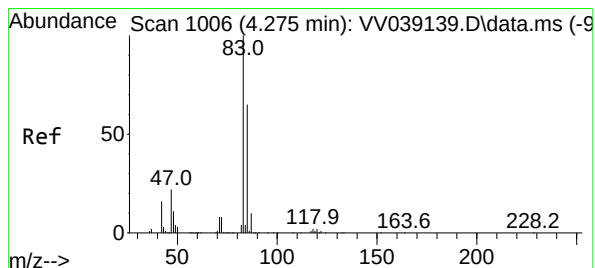
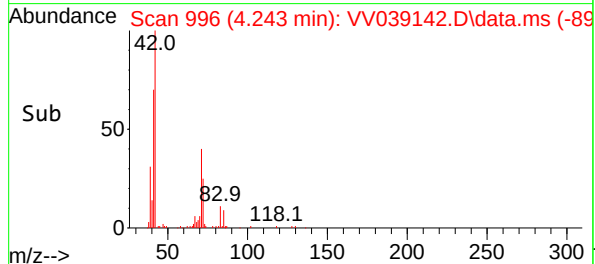
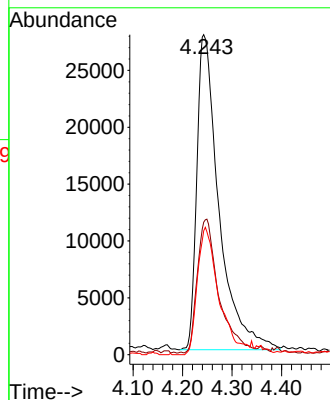
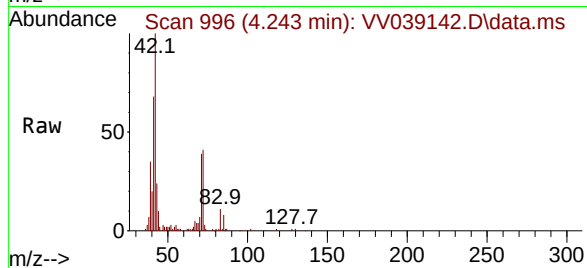
71 39.2 34.3 51.5

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025

Supervised By :Semsettin Yesilyurt 09/26/2025



#30

Chloroform

Concen: 5.308 ug/l

RT: 4.281 min Scan# 1008

Delta R.T. 0.006 min

Lab File: VV039142.D

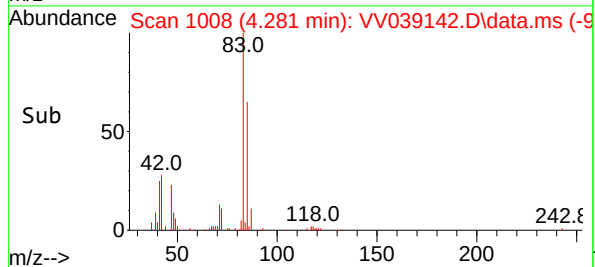
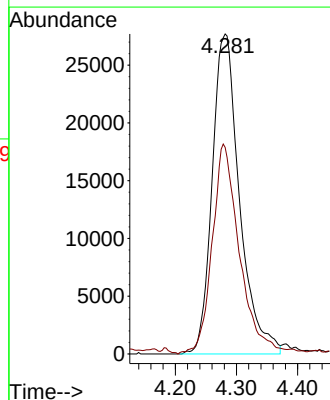
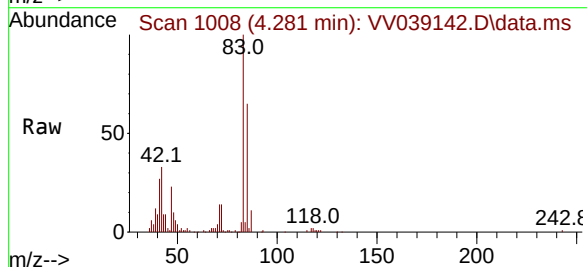
Acq: 22 Sep 2025 15:37

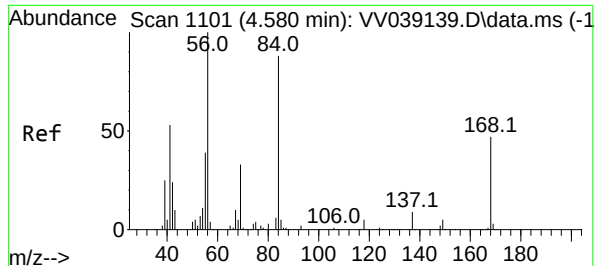
Tgt Ion: 83 Resp: 86066

Ion Ratio Lower Upper

83 100

85 64.1 52.1 78.1





#31

Cyclohexane

Concen: 5.450 ug/l

RT: 4.580 min Scan# 1101

Delta R.T. -0.000 min

Lab File: VV039142.D

Acq: 22 Sep 2025 15:37

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC005

Tgt Ion: 56 Resp: 69320

Ion Ratio Lower Upper

56 100

69 45.8 26.2 39.2

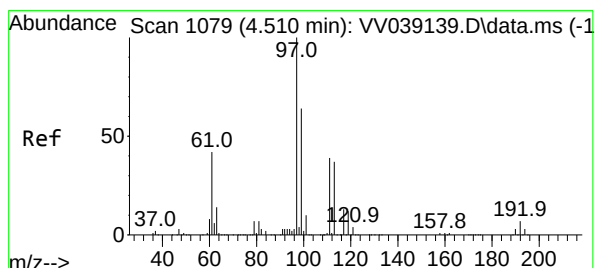
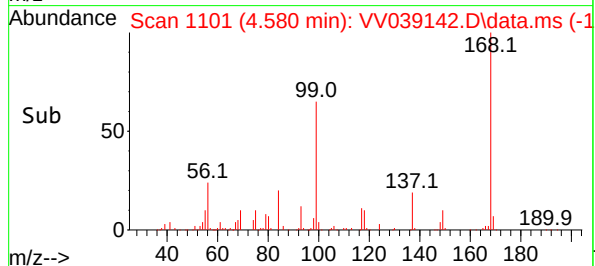
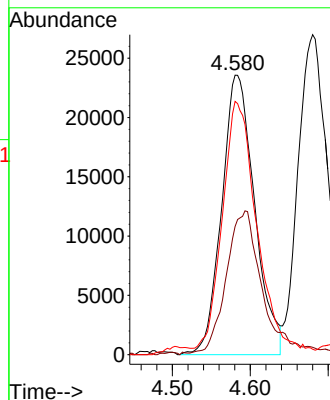
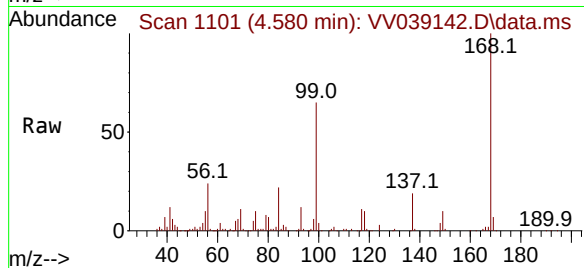
84 88.1 70.3 105.5

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025

Supervised By :Semsettin Yesilyurt 09/26/2025



#32

1,1,1-Trichloroethane

Concen: 5.310 ug/l

RT: 4.513 min Scan# 1080

Delta R.T. 0.003 min

Lab File: VV039142.D

Acq: 22 Sep 2025 15:37

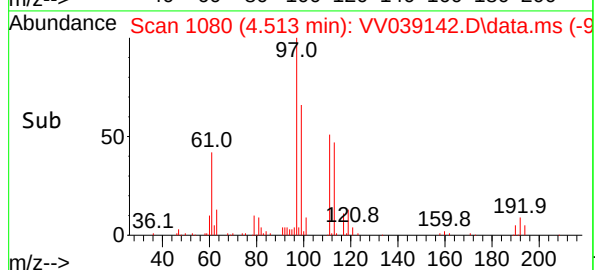
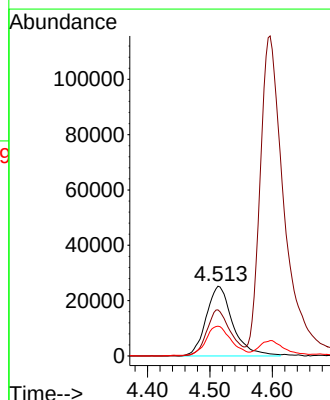
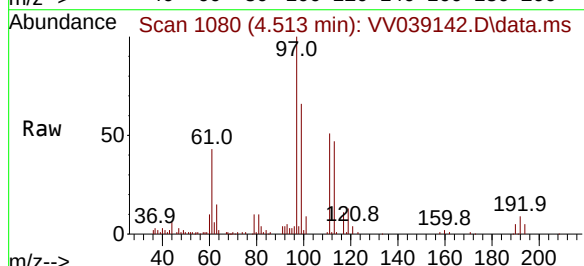
Tgt Ion: 97 Resp: 74539

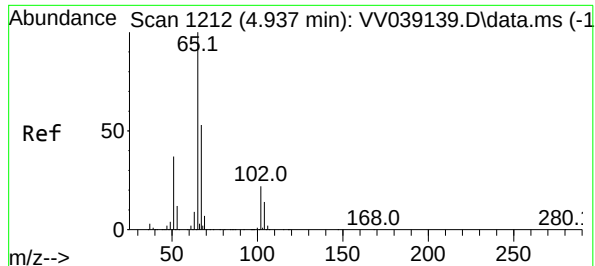
Ion Ratio Lower Upper

97 100

99 58.5 49.6 74.4

61 39.1 34.5 51.7





#33

1,2-Dichloroethane-d4

Concen: 6.347 ug/l

RT: 4.947 min Scan# 1212

Delta R.T. 0.010 min

Lab File: VV039142.D

Acq: 22 Sep 2025 15:37

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC005

Tgt Ion: 65 Resp: 4526

Ion Ratio Lower Upper

65 100

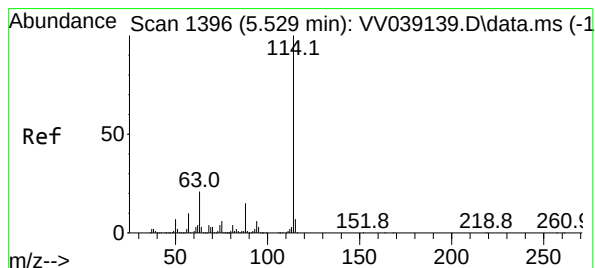
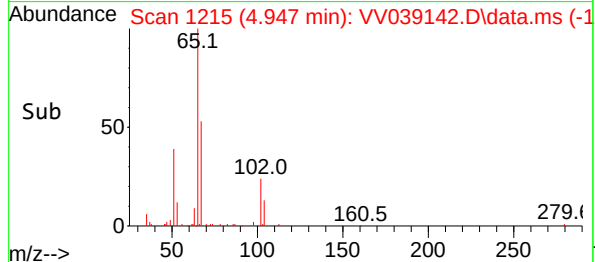
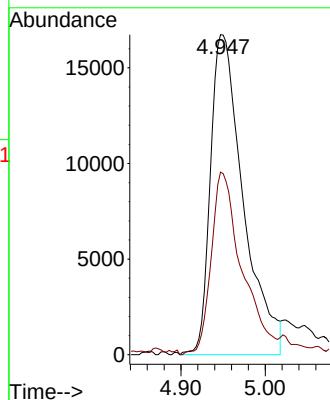
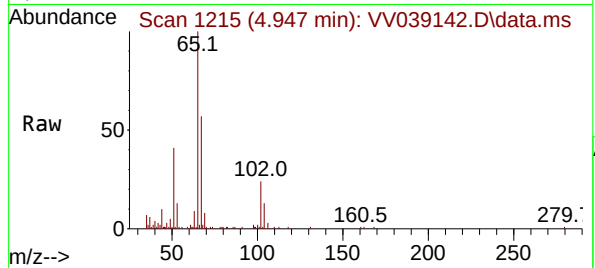
67 53.6 0.0 107.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025

Supervised By :Semsettin Yesilyurt 09/26/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.529 min Scan# 1396

Delta R.T. -0.000 min

Lab File: VV039142.D

Acq: 22 Sep 2025 15:37

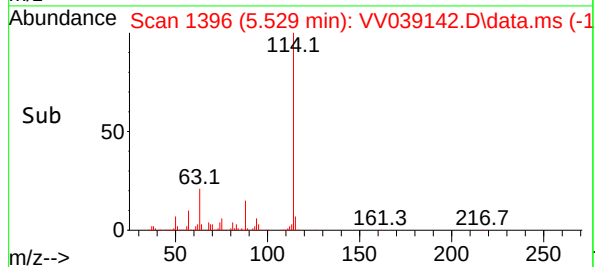
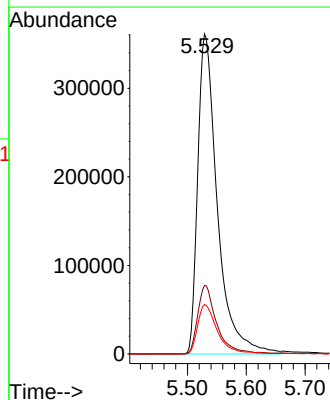
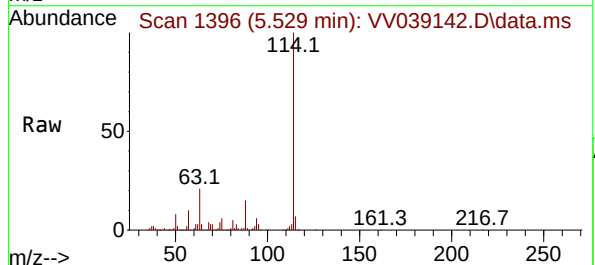
Tgt Ion:114 Resp: 835334

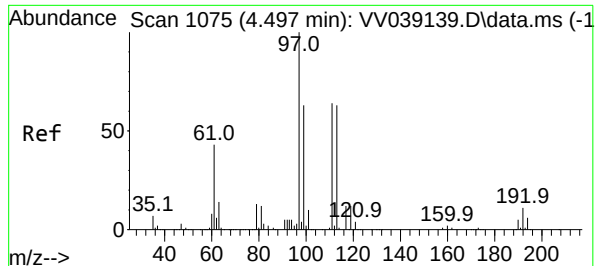
Ion Ratio Lower Upper

114 100

63 21.4 0.0 42.6

88 15.5 0.0 30.8





#35

Dibromofluoromethane

Concen: 5.653 ug/l

RT: 4.503 min Scan# 1077

Delta R.T. 0.006 min

Lab File: VV039142.D

Acq: 22 Sep 2025 15:37

Instrument :

MSVOA_V

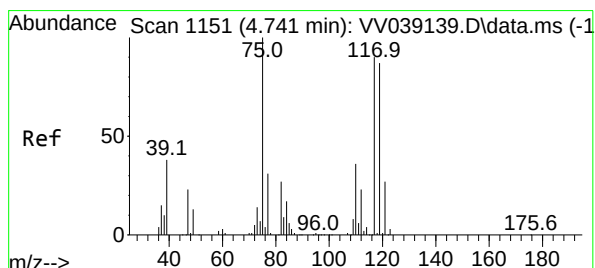
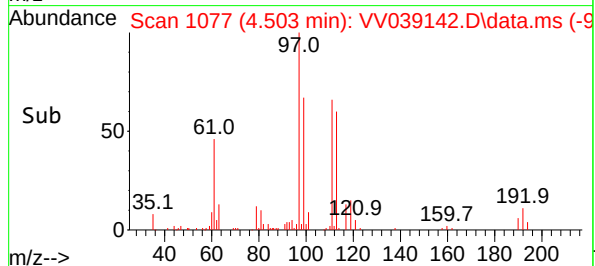
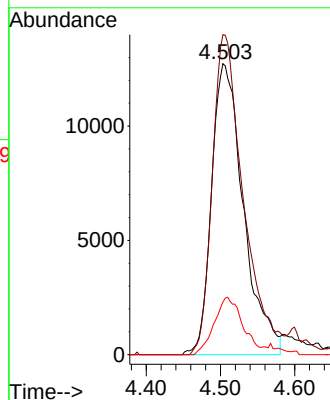
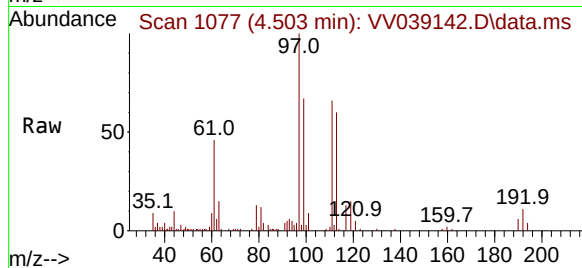
ClientSampleId :

VSTDIC005

Tgt Ion:	113	Resp:	3795
Ion	Ratio	Lower	Upper
113	100		
111	107.6	82.4	123.6
192	17.6	13.8	20.8

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#36

1,1-Dichloropropene

Concen: 4.379 ug/l

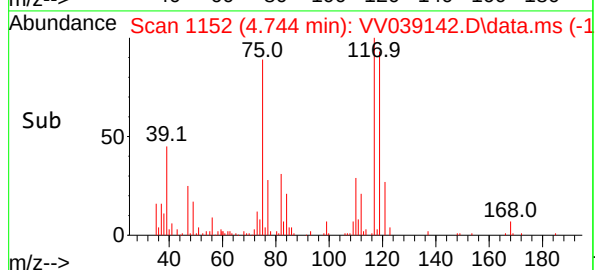
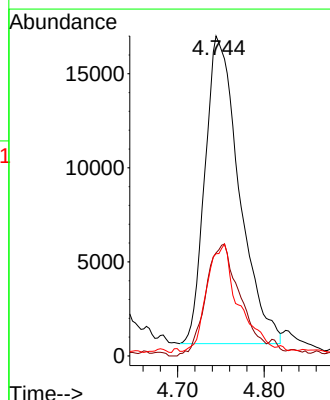
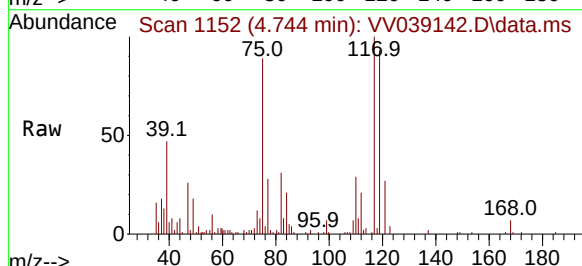
RT: 4.744 min Scan# 1152

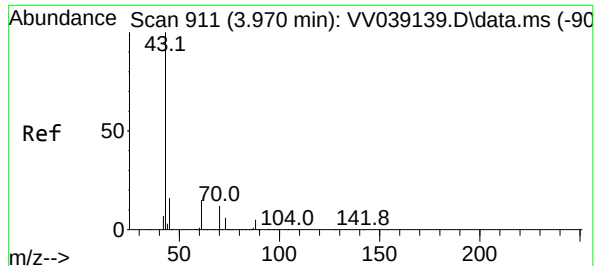
Delta R.T. 0.003 min

Lab File: VV039142.D

Acq: 22 Sep 2025 15:37

Tgt Ion:	75	Resp:	44786
Ion	Ratio	Lower	Upper
75	100		
110	36.8	18.1	54.1
77	32.0	24.8	37.2





#37

Ethyl Acetate

Concen: 4.805 ug/l

RT: 3.995 min Scan# 911

Delta R.T. 0.025 min

Lab File: VV039142.D

Acq: 22 Sep 2025 15:37

Instrument :

MSVOA_V

ClientSampleId :

VSTDICC005

Tgt Ion: 43 Resp: 6028

Ion Ratio Lower Upper

43 100

61 0.0 10.3 15.5

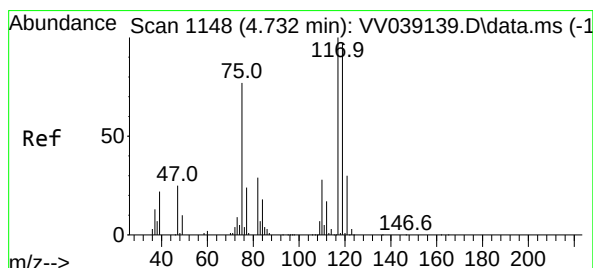
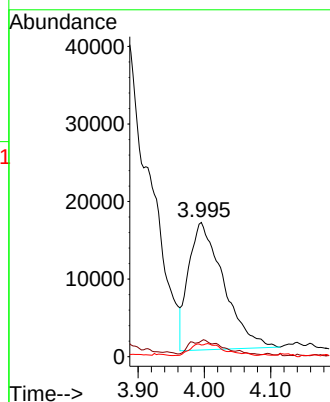
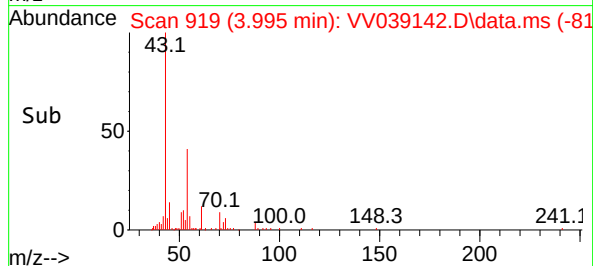
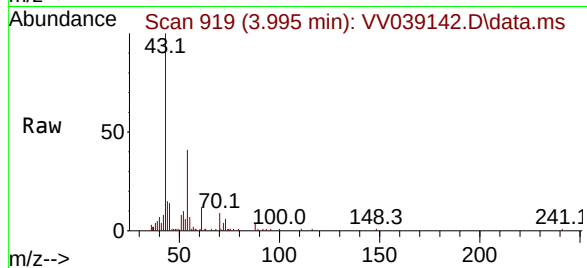
70 3.0 8.0 12.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025

Supervised By :Semsettin Yesilyurt 09/26/2025



#38

Carbon Tetrachloride

Concen: 4.992 ug/l

RT: 4.732 min Scan# 1148

Delta R.T. -0.000 min

Lab File: VV039142.D

Acq: 22 Sep 2025 15:37

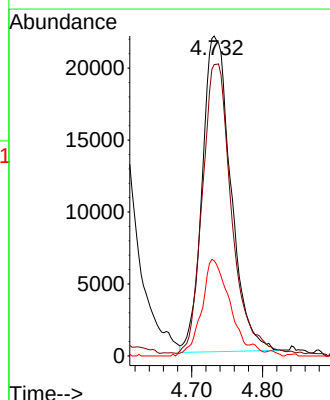
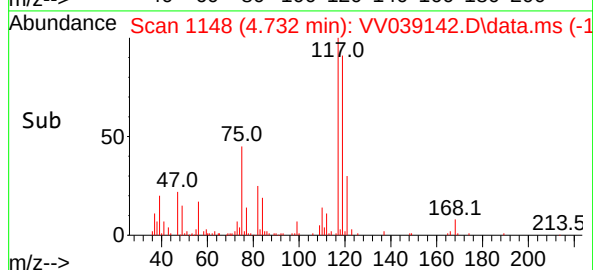
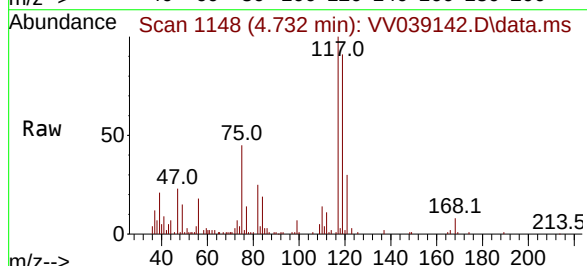
Tgt Ion:117 Resp: 61498

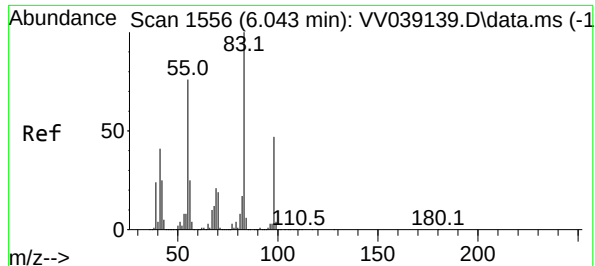
Ion Ratio Lower Upper

117 100

119 91.1 77.2 115.8

121 29.8 24.2 36.2





#39

Methylcyclohexane

Concen: 4.633 ug/l

RT: 6.047 min Scan# 1

Delta R.T. 0.004 min

Lab File: VV039142.D

Acq: 22 Sep 2025 15:37

Instrument :

MSVOA_V

ClientSampleId :

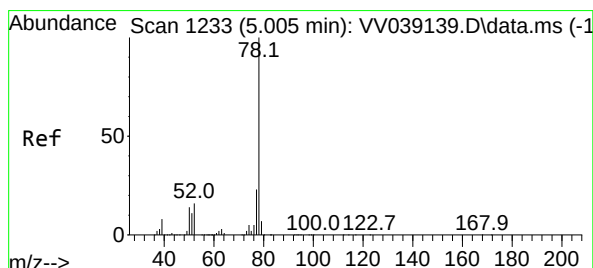
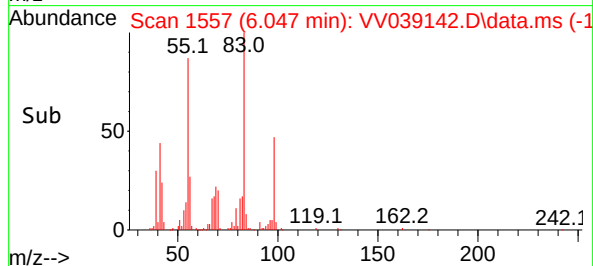
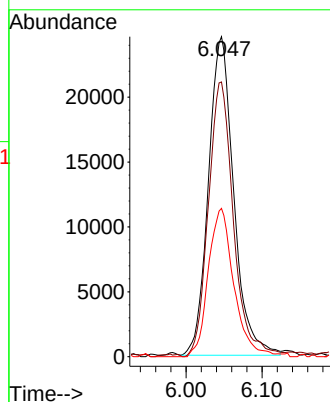
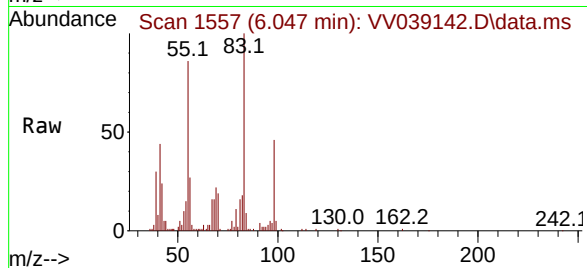
VSTDICC005

Tgt Ion:	83	Resp:	5680
Ion	Ratio	Lower	Upper
83	100		
55	85.8	60.5	90.7
98	46.6	37.8	56.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#40

Benzene

Concen: 4.959 ug/l

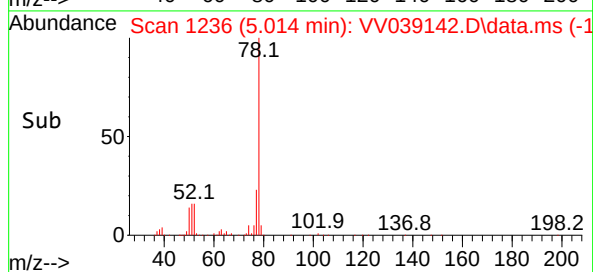
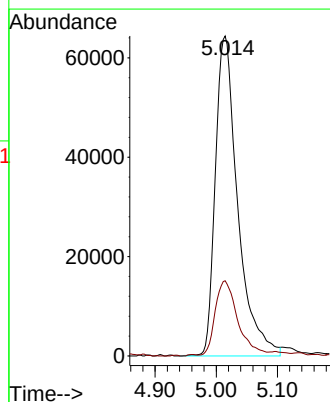
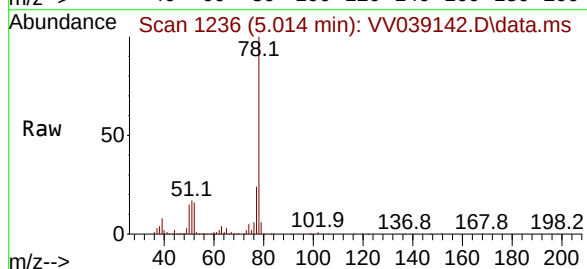
RT: 5.014 min Scan# 1236

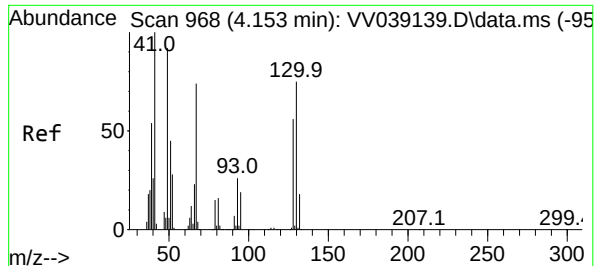
Delta R.T. 0.009 min

Lab File: VV039142.D

Acq: 22 Sep 2025 15:37

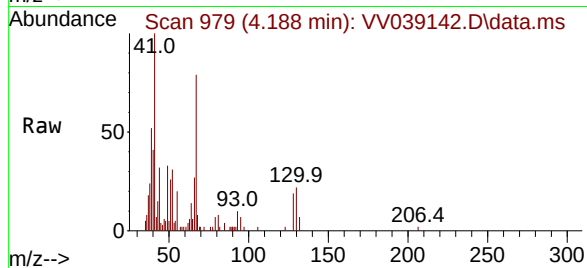
Tgt Ion:	78	Resp:	163948
Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.7	28.1





#41
Methacrylonitrile
Concen: 4.995 ug/l
RT: 4.188 min Scan# 91
Delta R.T. 0.035 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

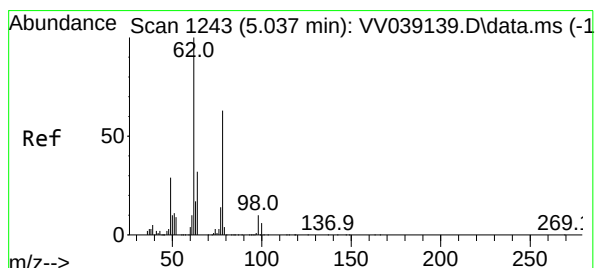
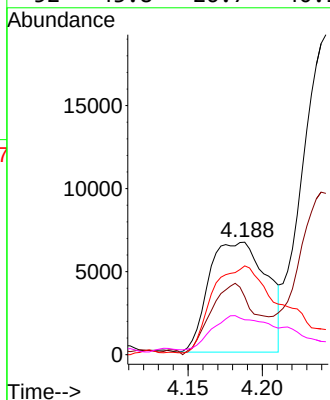
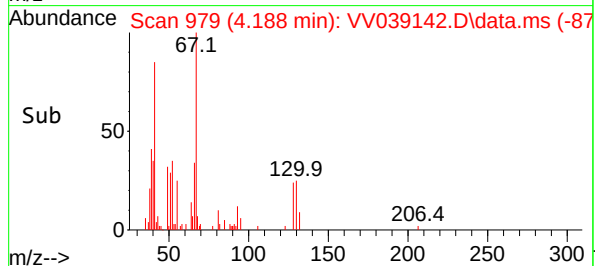
Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005



Tgt Ion: 41 Resp: 1795
Ion Ratio Lower Upper
41 100
39 50.3 42.2 63.2
67 102.2 67.9 101.9
52 43.8 26.7 40.1#

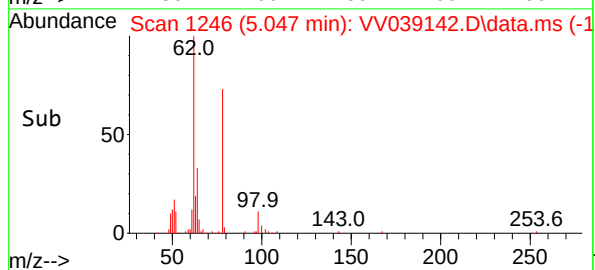
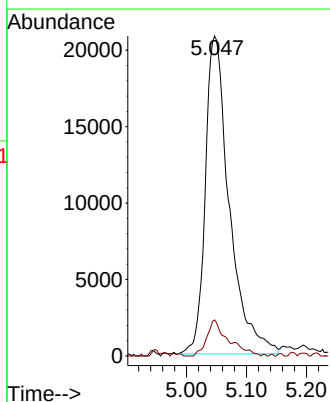
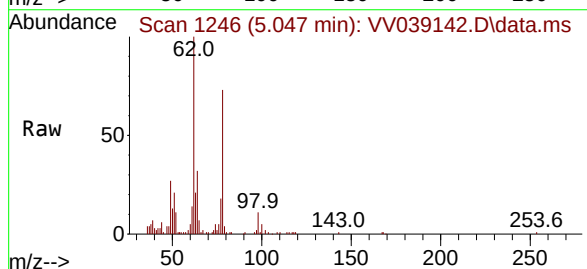
Manual Integrations
APPROVED

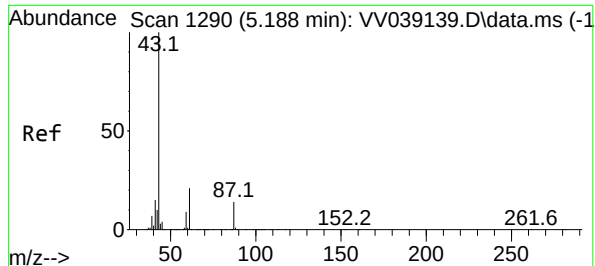
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#42
1,2-Dichloroethane
Concen: 4.994 ug/l
RT: 5.047 min Scan# 1246
Delta R.T. 0.010 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 62 Resp: 57857
Ion Ratio Lower Upper
62 100
98 8.0 0.0 19.2





#43

Isopropyl Acetate

Concen: 4.509 ug/l

RT: 5.204 min Scan# 1295

Delta R.T. 0.016 min

Lab File: VV039142.D

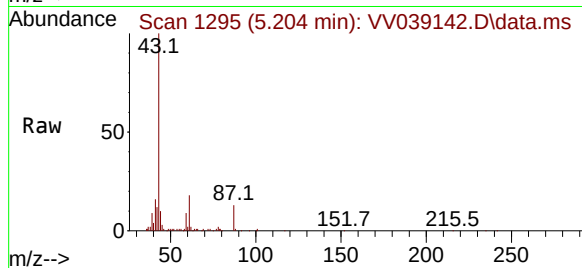
Acq: 22 Sep 2025 15:37

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC005

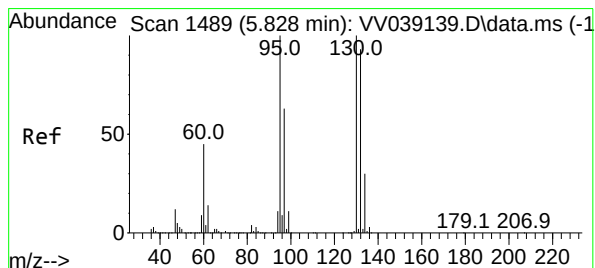
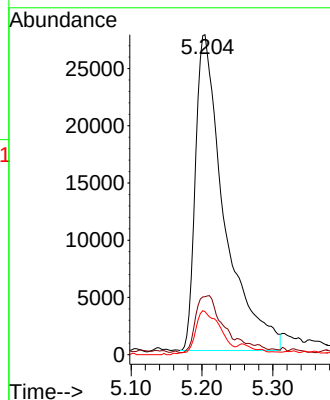
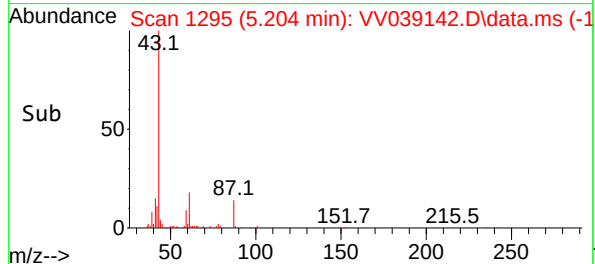


Tgt Ion:	43	Resp:	7793
Ion	Ratio	Lower	Upper
43	100		
61	15.9	15.9	23.9
87	12.0	11.0	16.6

Manual Integrations

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Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#44

Trichloroethene

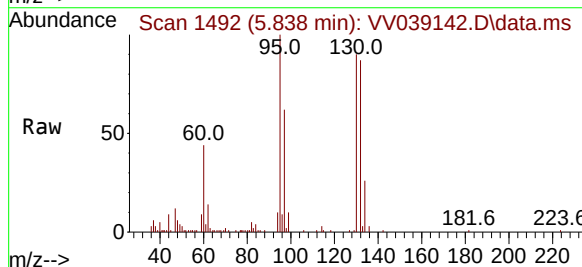
Concen: 5.033 ug/l

RT: 5.838 min Scan# 1492

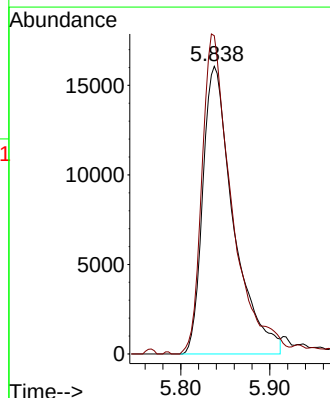
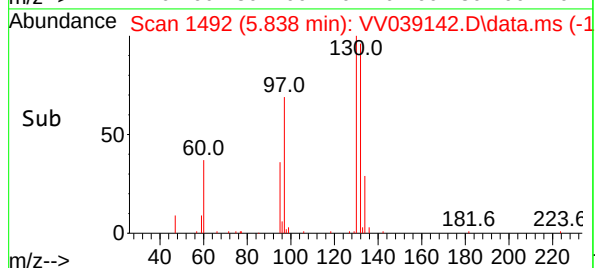
Delta R.T. 0.010 min

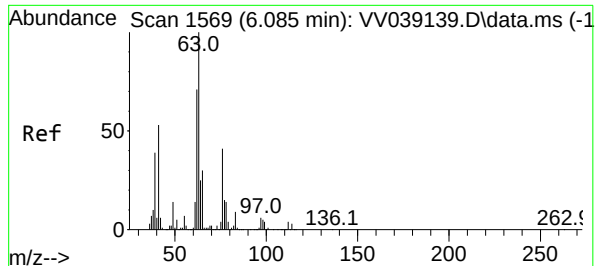
Lab File: VV039142.D

Acq: 22 Sep 2025 15:37



Tgt Ion:	130	Resp:	38395
Ion	Ratio	Lower	Upper
130	100		
95	110.6	0.0	199.2





#45

1,2-Dichloropropane

Concen: 4.786 ug/l

RT: 6.098 min Scan# 1573

Delta R.T. 0.013 min

Lab File: VV039142.D

Acq: 22 Sep 2025 15:37

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC005

Tgt Ion: 63 Resp: 3932

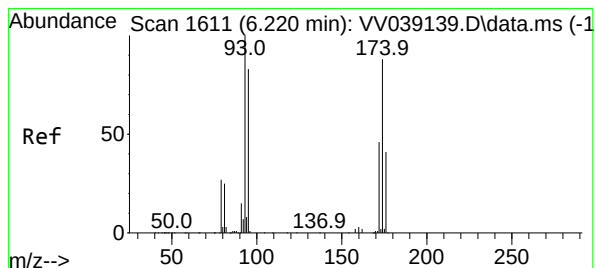
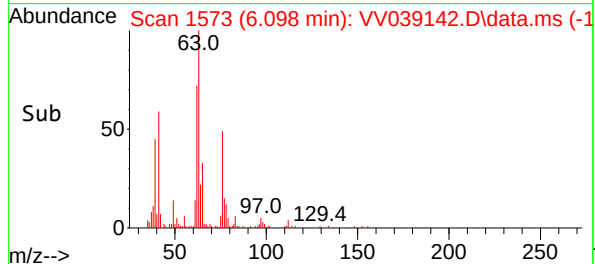
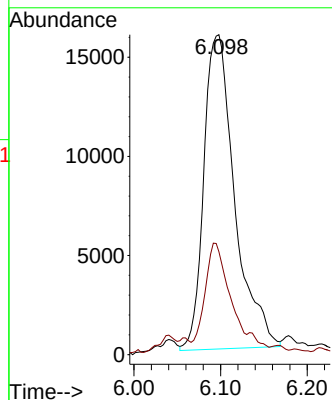
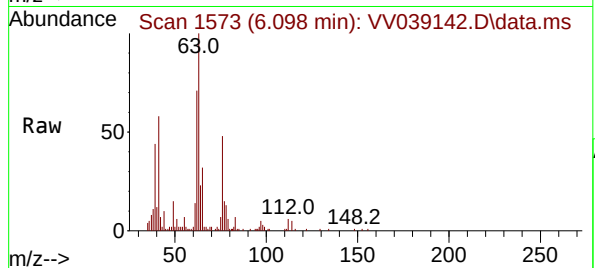
Ion Ratio Lower Upper

63 100

65 29.6 23.7 35.5

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

#46

Dibromomethane

Concen: 5.066 ug/l

RT: 6.233 min Scan# 1615

Delta R.T. 0.013 min

Lab File: VV039142.D

Acq: 22 Sep 2025 15:37

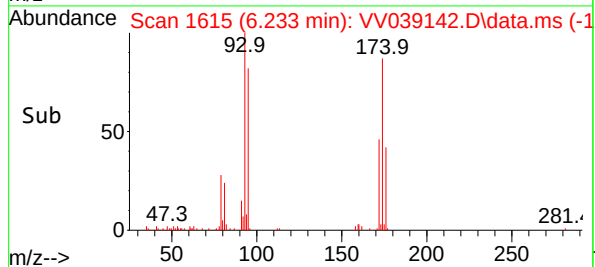
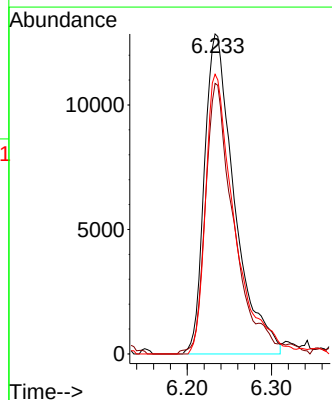
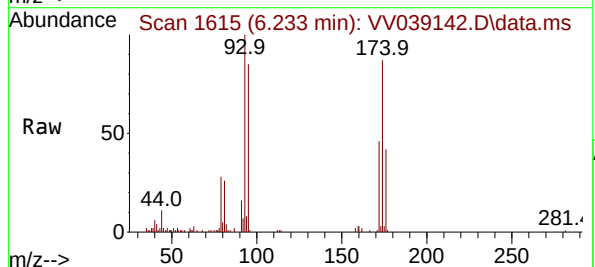
Tgt Ion: 93 Resp: 31863

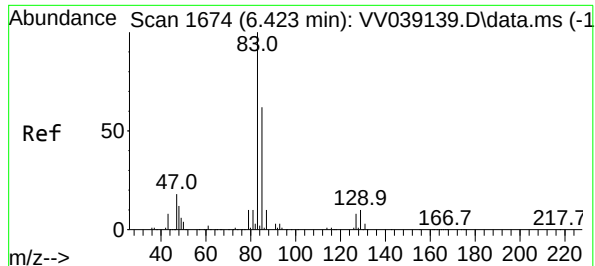
Ion Ratio Lower Upper

93 100

95 80.2 65.5 98.3

174 84.5 69.0 103.4





#47

Bromodichloromethane

Concen: 4.925 ug/l

RT: 6.429 min Scan# 1640

Delta R.T. 0.006 min

Lab File: VV039142.D

Acq: 22 Sep 2025 15:37

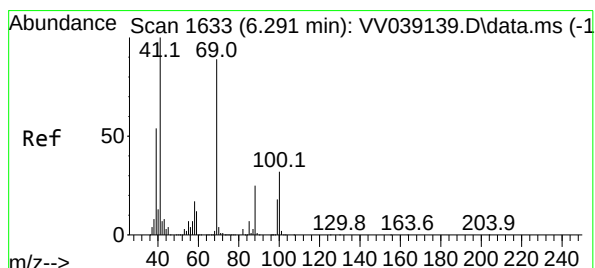
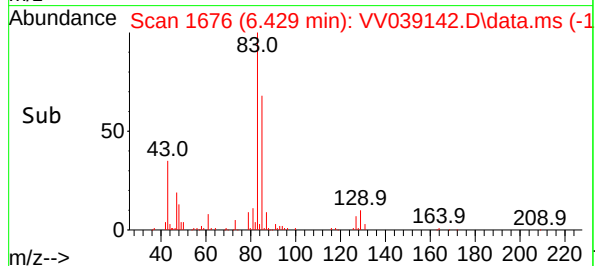
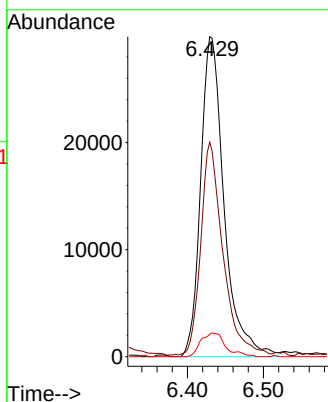
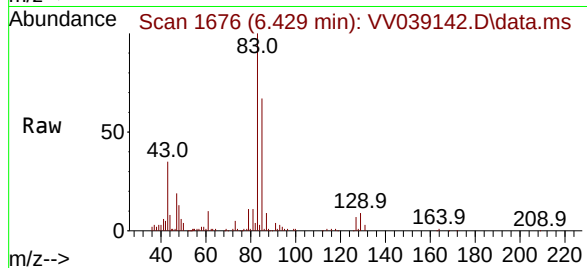
Instrument :

MSVOA_V

ClientSampleId :

VSTDIC005

Tgt Ion:	83	Resp:	64039
Ion	Ratio	Lower	Upper
83	100		
85	66.5	49.7	74.5
127	7.1	6.6	9.8

Manual Integrations
APPROVEDReviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

#48

Methyl methacrylate

Concen: 3.757 ug/l

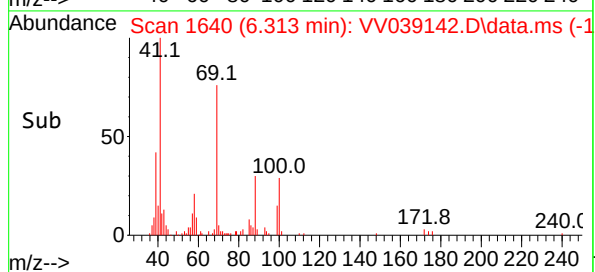
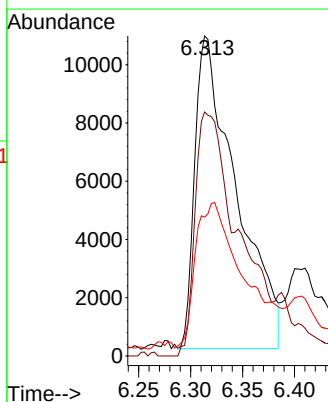
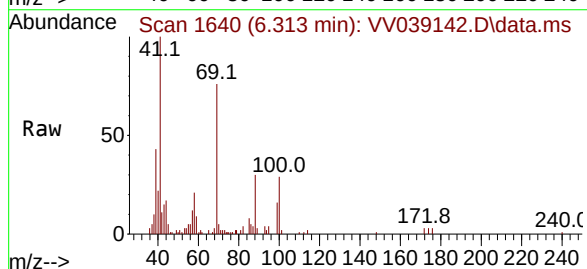
RT: 6.313 min Scan# 1640

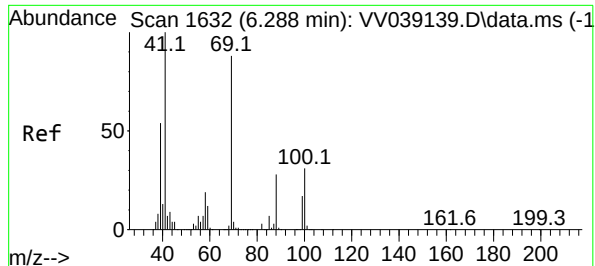
Delta R.T. 0.022 min

Lab File: VV039142.D

Acq: 22 Sep 2025 15:37

Tgt Ion:	41	Resp:	29705
Ion	Ratio	Lower	Upper
41	100		
69	81.4	72.4	108.6
39	54.4	42.5	63.7





#49

1,4-Dioxane

Concen: 72.413 ug/l

RT: 6.307 min Scan# 1

Delta R.T. 0.019 min

Lab File: VV039142.D

Acq: 22 Sep 2025 15:37

Instrument :

MSVOA_V

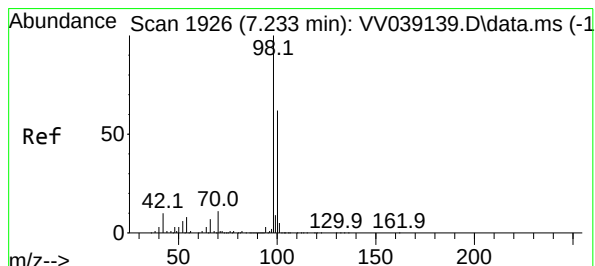
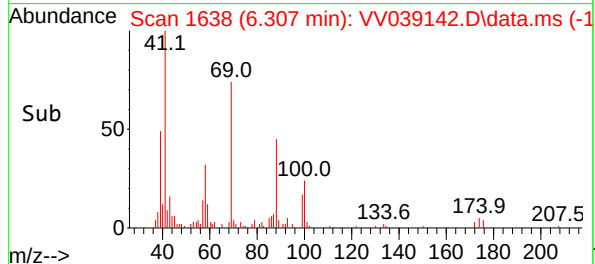
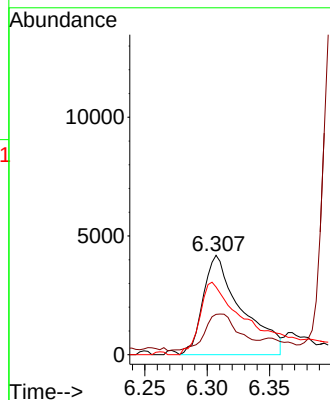
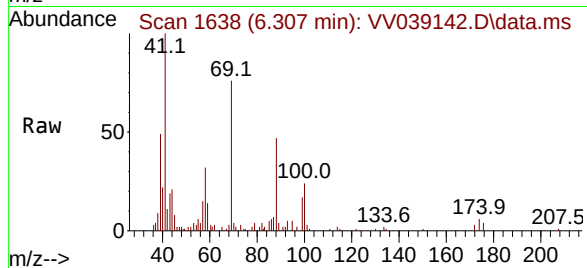
ClientSampleId :

VSTDICC005

Tgt Ion:	88	Resp:	899
Ion	Ratio	Lower	Upper
88	100		
43	31.9	25.1	37.7
58	91.7	53.6	80.4

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#50

Toluene-d8

Concen: 5.976 ug/l

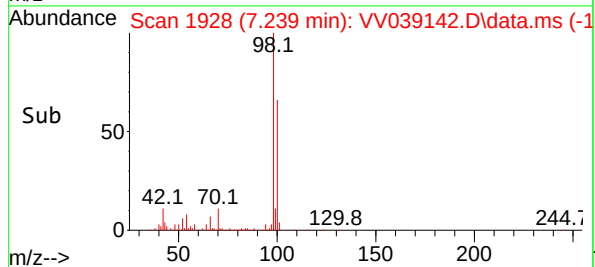
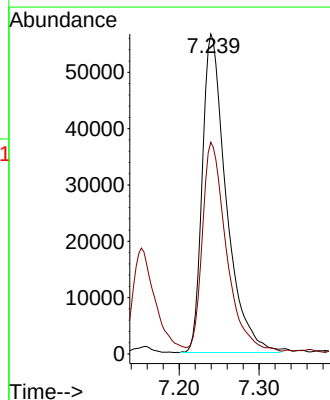
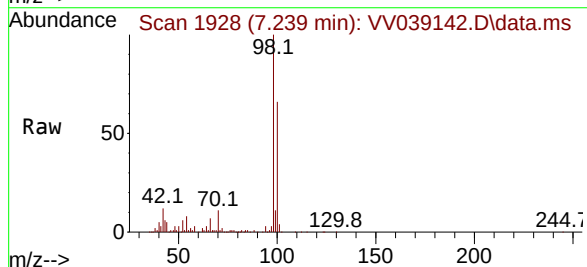
RT: 7.239 min Scan# 1928

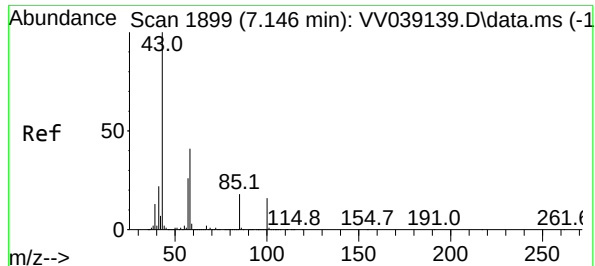
Delta R.T. 0.006 min

Lab File: VV039142.D

Acq: 22 Sep 2025 15:37

Tgt Ion:	98	Resp:	117860
Ion	Ratio	Lower	Upper
98	100		
100	66.0	52.2	78.2





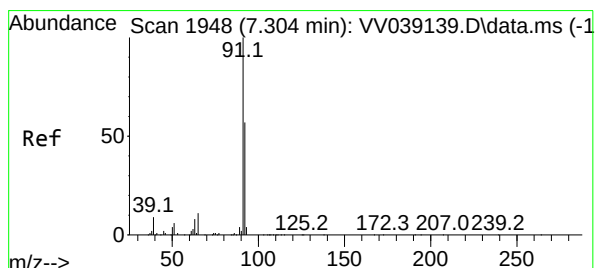
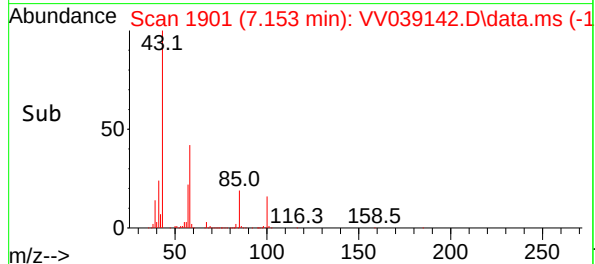
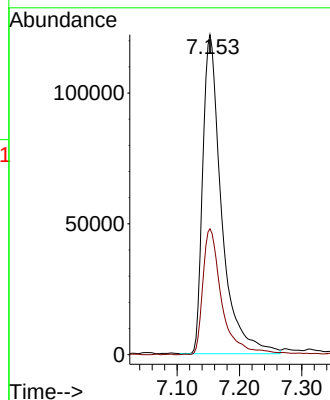
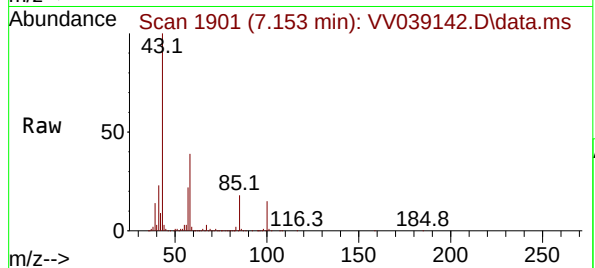
#51
4-Methyl-2-Pentanone
Concen: 23.155 ug/l
RT: 7.153 min Scan# 1901
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 255889
Ion Ratio Lower Upper
43 100
58 39.6 32.3 48.5

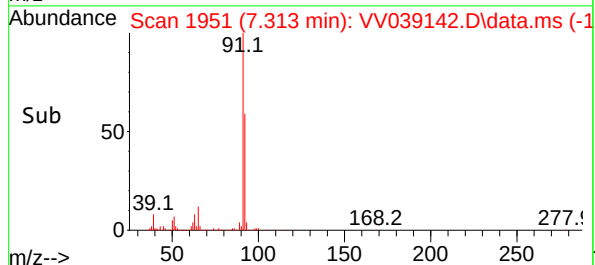
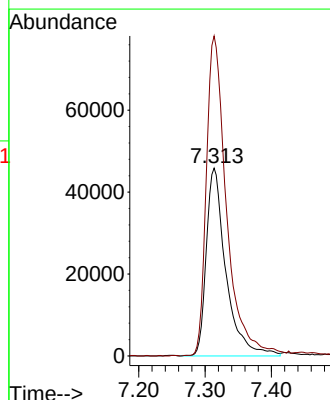
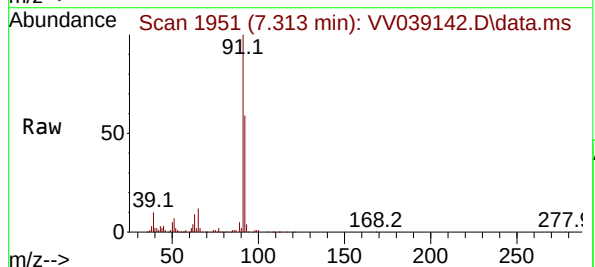
Manual Integrations
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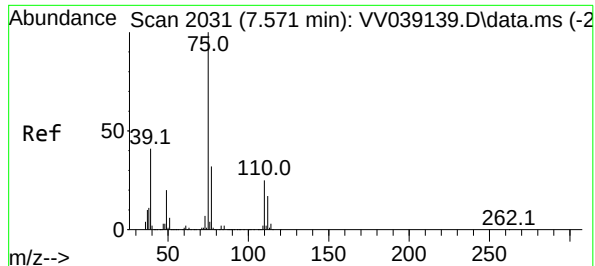
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#52
Toluene
Concen: 4.925 ug/l
RT: 7.313 min Scan# 1951
Delta R.T. 0.009 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 92 Resp: 94414
Ion Ratio Lower Upper
92 100
91 175.4 139.2 208.8





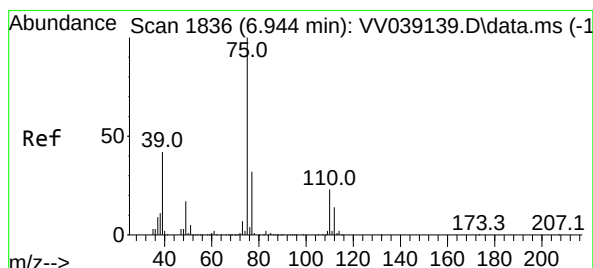
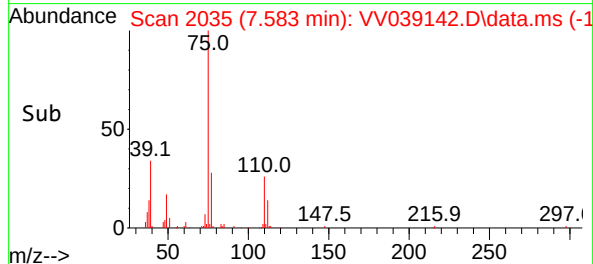
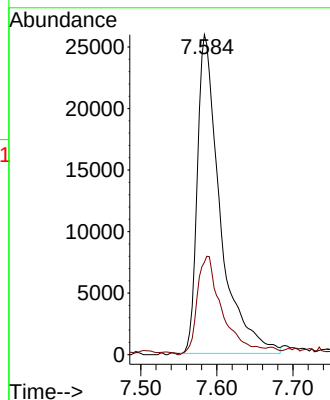
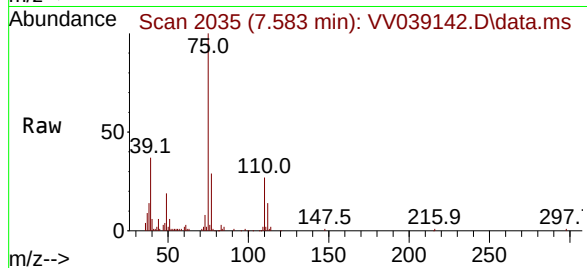
#53
t-1,3-Dichloropropene
Concen: 4.755 ug/l
RT: 7.583 min Scan# 2031
Delta R.T. 0.013 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Tgt Ion: 75 Resp: 53878
Ion Ratio Lower Upper
75 100
77 29.0 25.9 38.9

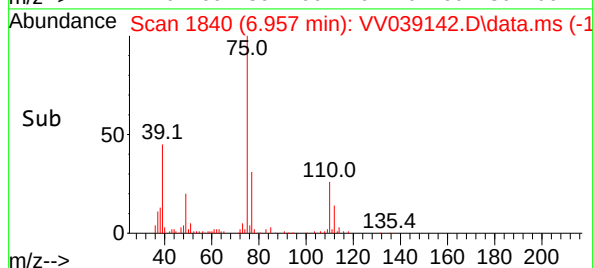
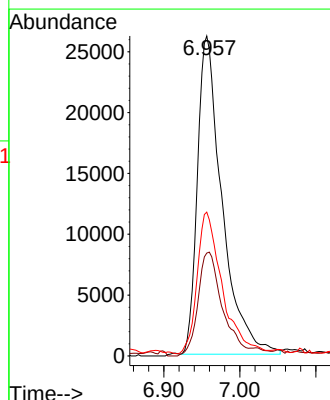
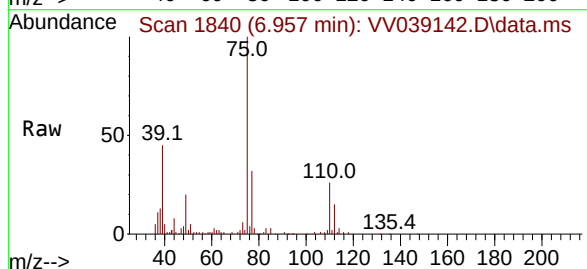
Manual Integrations
APPROVED

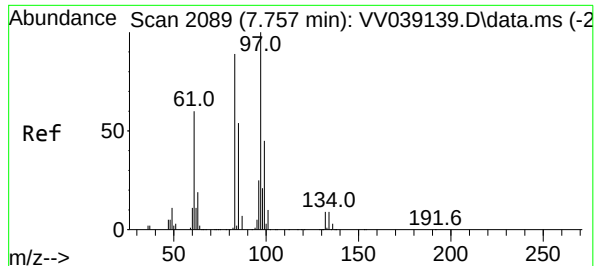
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#54
cis-1,3-Dichloropropene
Concen: 4.700 ug/l
RT: 6.957 min Scan# 1840
Delta R.T. 0.013 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 75 Resp: 58800
Ion Ratio Lower Upper
75 100
77 31.9 25.5 38.3
39 44.3 33.8 50.6





#55

1,1,2-Trichloroethane

Concen: 5.094 ug/l

RT: 7.764 min Scan# 2089

Delta R.T. 0.007 min

Lab File: VV039142.D

Acq: 22 Sep 2025 15:37

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC005

Tgt Ion: 97 Resp: 4378

Ion Ratio Lower Upper

97 100

83 88.7 71.1 106.7

85 57.1 44.6 67.0

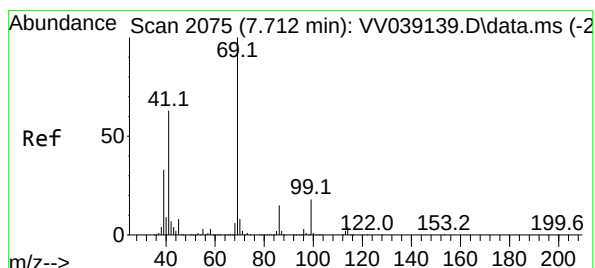
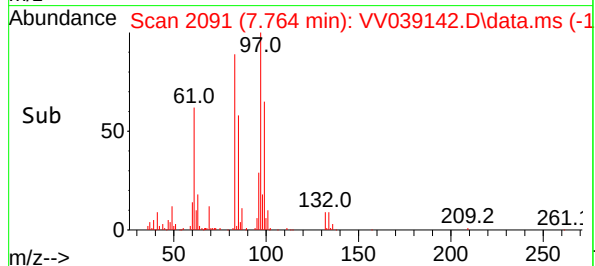
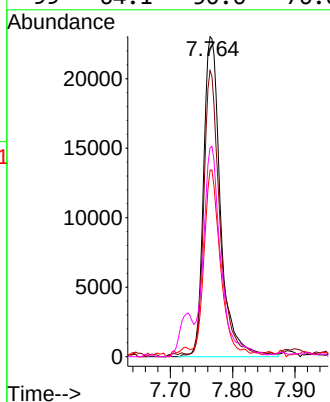
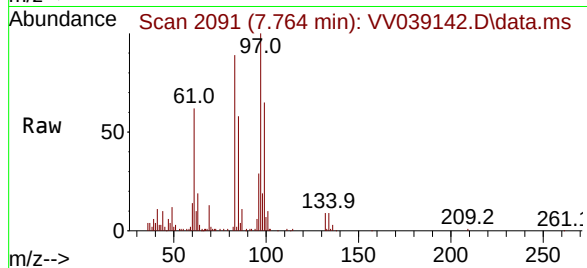
99 64.1 50.6 76.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025

Supervised By :Semsettin Yesilyurt 09/26/2025



#56

Ethyl methacrylate

Concen: 4.173 ug/l

RT: 7.722 min Scan# 2078

Delta R.T. 0.010 min

Lab File: VV039142.D

Acq: 22 Sep 2025 15:37

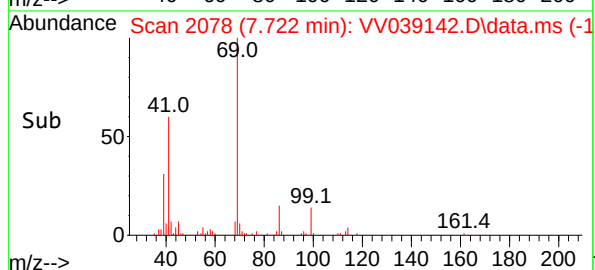
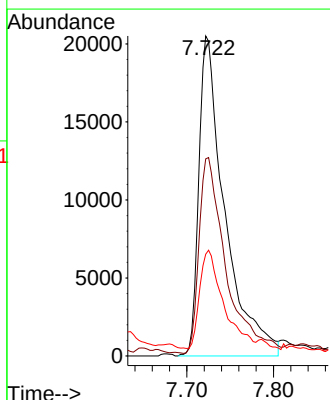
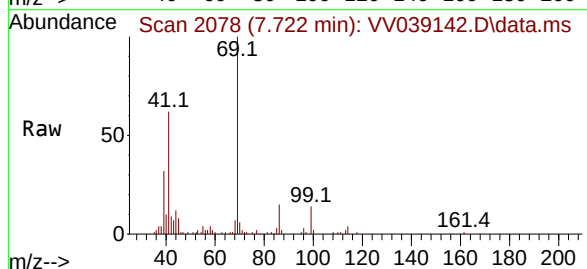
Tgt Ion: 69 Resp: 42598

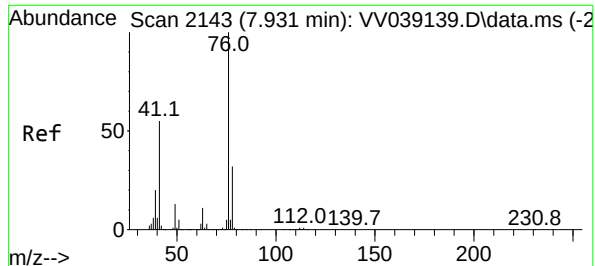
Ion Ratio Lower Upper

69 100

41 63.6 50.7 76.1

39 28.1 26.0 39.0





#57

1,3-Dichloropropane

Concen: 4.705 ug/l

RT: 7.937 min Scan# 2143

Delta R.T. 0.006 min

Lab File: VV039142.D

Acq: 22 Sep 2025 15:37

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC005

Tgt Ion: 76 Resp: 63818

Ion Ratio Lower Upper

76 100

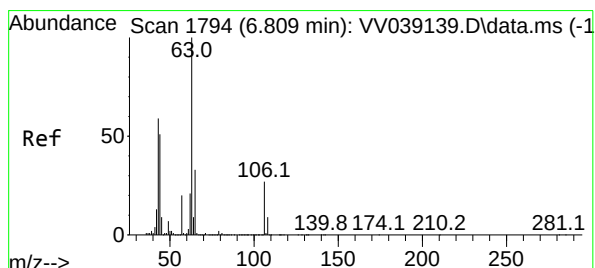
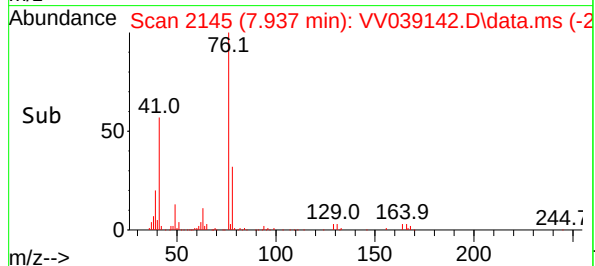
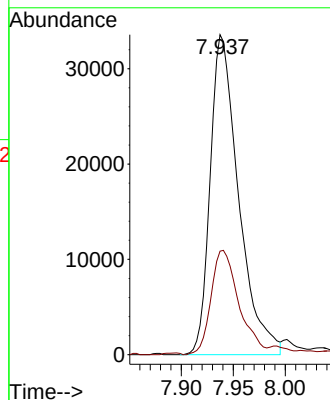
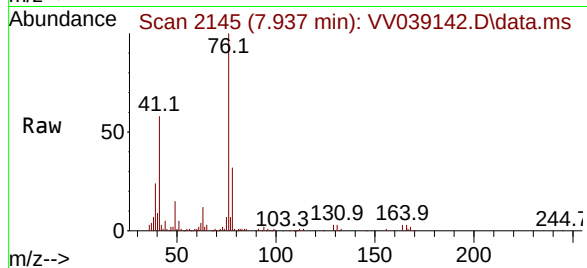
78 32.1 26.1 39.1

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025

Supervised By :Semsettin Yesilyurt 09/26/2025



#58

2-Chloroethyl Vinyl ether

Concen: 23.077 ug/l

RT: 6.818 min Scan# 1797

Delta R.T. 0.009 min

Lab File: VV039142.D

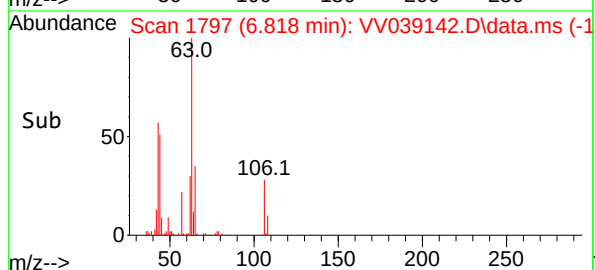
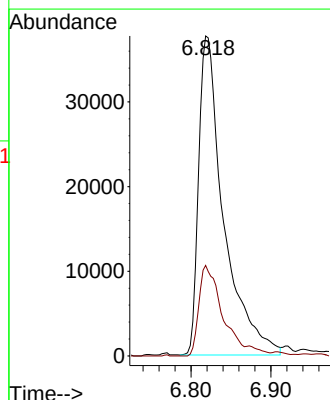
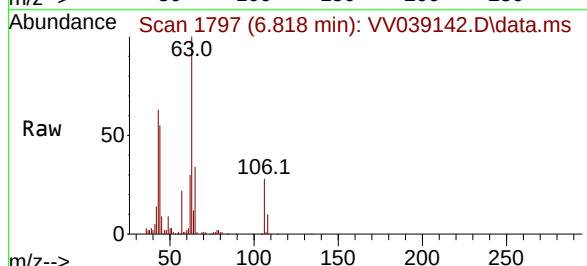
Acq: 22 Sep 2025 15:37

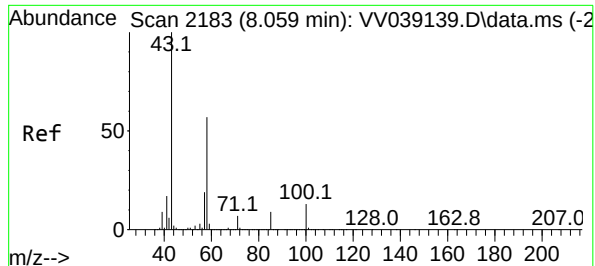
Tgt Ion: 63 Resp: 81984

Ion Ratio Lower Upper

63 100

106 27.7 22.1 33.1





#59

2-Hexanone

Concen: 22.071 ug/l

RT: 8.069 min Scan# 2183

Delta R.T. 0.010 min

Lab File: VV039142.D

Acq: 22 Sep 2025 15:37

Instrument :

MSVOA_V

ClientSampleId :

VSTDICC005

Tgt Ion: 43 Resp: 17918

Ion Ratio Lower Upper

43 100

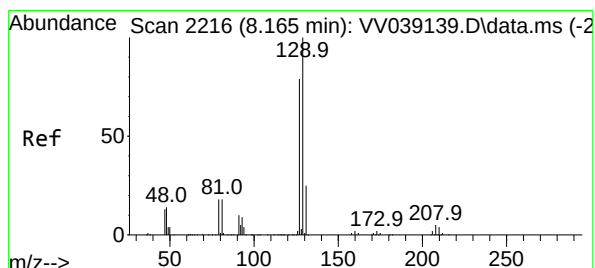
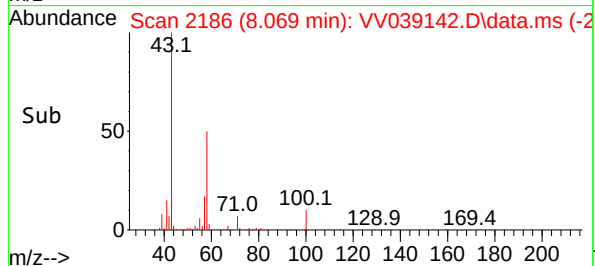
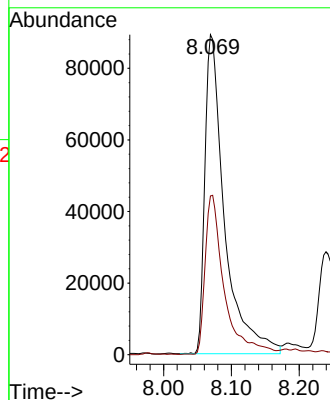
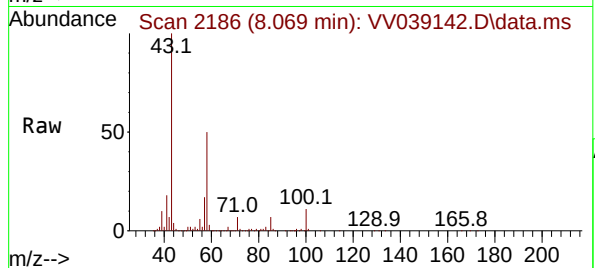
58 48.1 28.3 85.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025

Supervised By :Semsettin Yesilyurt 09/26/2025



#60

Dibromochloromethane

Concen: 5.100 ug/l

RT: 8.169 min Scan# 2217

Delta R.T. 0.003 min

Lab File: VV039142.D

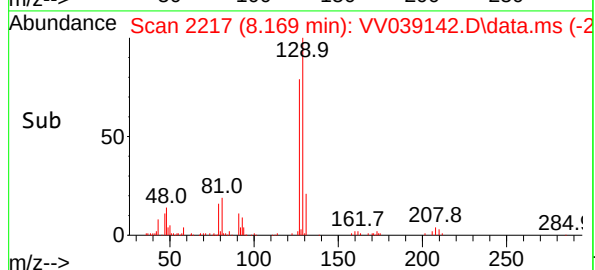
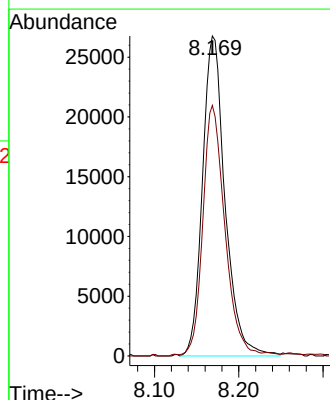
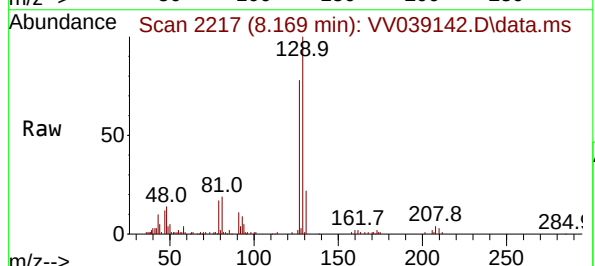
Acq: 22 Sep 2025 15:37

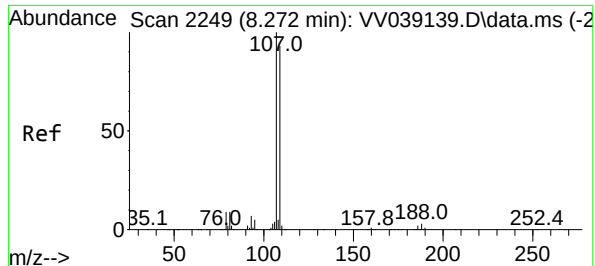
Tgt Ion:129 Resp: 49953

Ion Ratio Lower Upper

129 100

127 74.8 39.3 117.9





#61

1,2-Dibromoethane

Concen: 5.088 ug/l

RT: 8.278 min Scan# 21

Delta R.T. 0.006 min

Lab File: VV039142.D

Acq: 22 Sep 2025 15:37

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC005

Tgt Ion:107 Resp: 44729

Ion Ratio Lower Upper

107 100

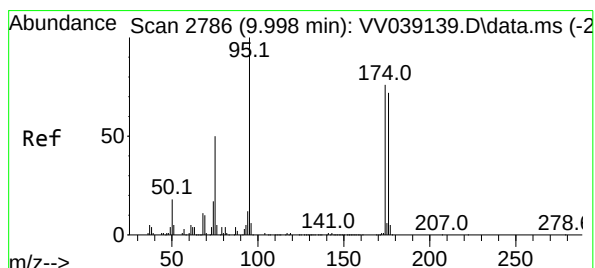
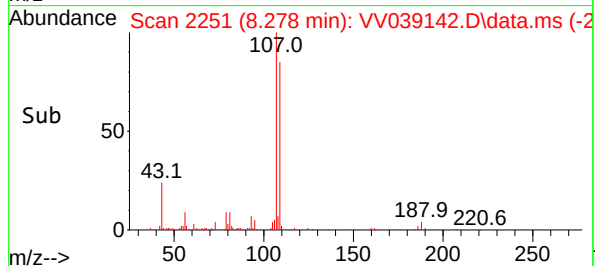
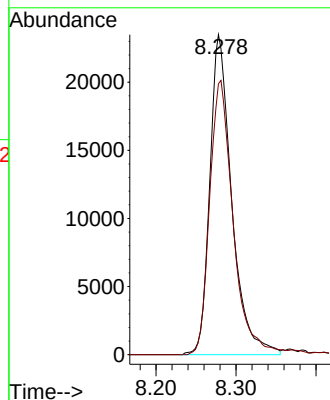
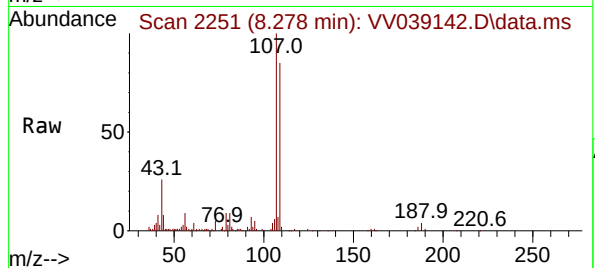
109 91.4 74.6 112.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025

Supervised By :Semsettin Yesilyurt 09/26/2025



#62

4-Bromofluorobenzene

Concen: 4.904 ug/l

RT: 10.008 min Scan# 2789

Delta R.T. 0.010 min

Lab File: VV039142.D

Acq: 22 Sep 2025 15:37

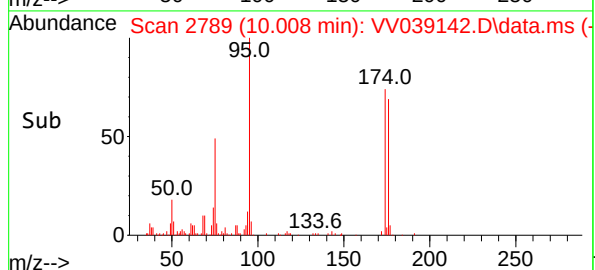
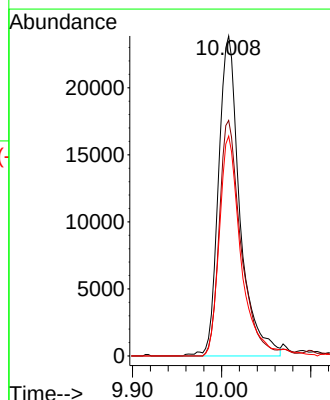
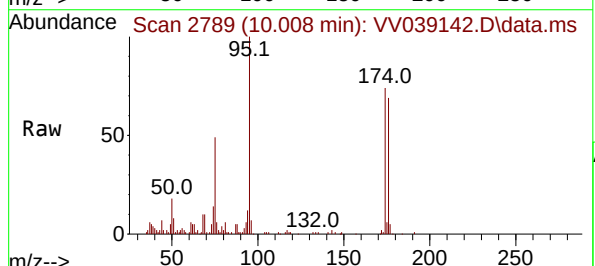
Tgt Ion: 95 Resp: 39819

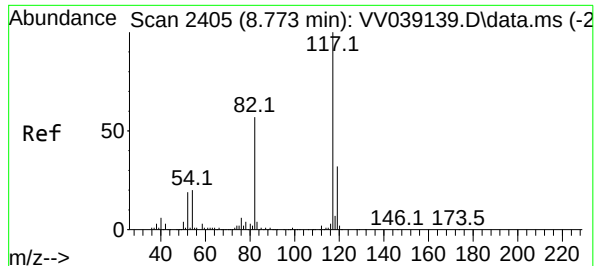
Ion Ratio Lower Upper

95 100

174 74.3 0.0 150.4

176 70.3 0.0 144.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 8.773 min Scan# 2405

Delta R.T. 0.000 min

Lab File: VV039142.D

Acq: 22 Sep 2025 15:37

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC005

Tgt Ion:117 Resp: 807740

Ion Ratio Lower Upper

117 100

82 57.0 45.4 68.2

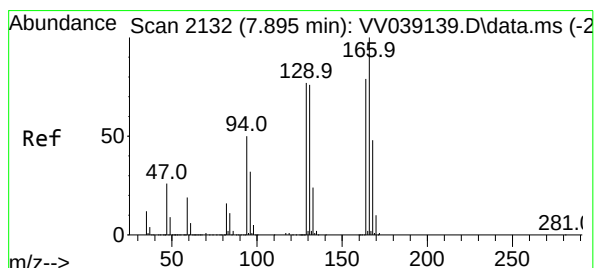
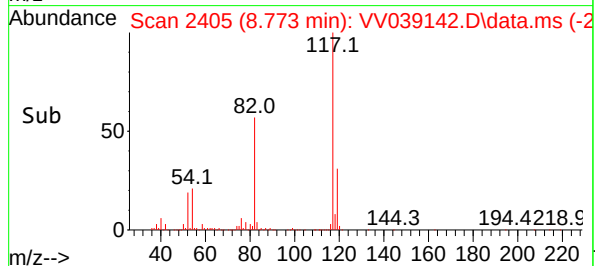
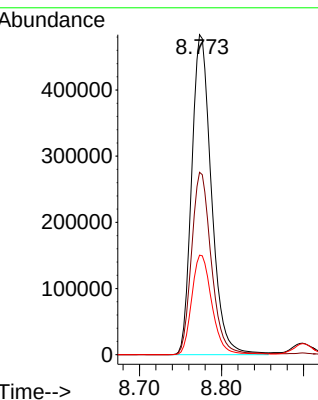
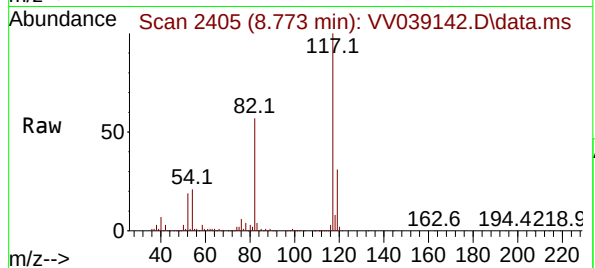
119 31.1 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025

Supervised By :Semsettin Yesilyurt 09/26/2025



#64

Tetrachloroethene

Concen: 5.143 ug/l

RT: 7.899 min Scan# 2133

Delta R.T. 0.003 min

Lab File: VV039142.D

Acq: 22 Sep 2025 15:37

Tgt Ion:164 Resp: 34795

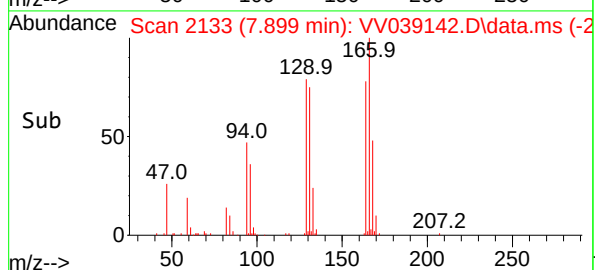
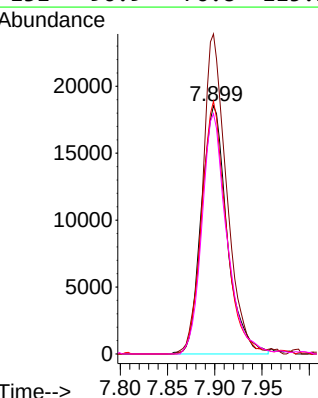
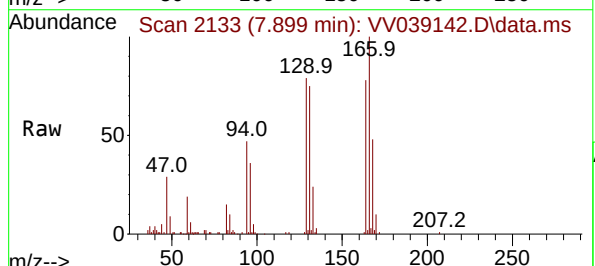
Ion Ratio Lower Upper

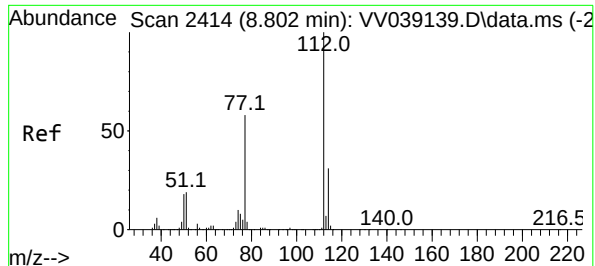
164 100

166 128.9 101.6 152.4

129 101.9 78.5 117.7

131 96.9 76.8 115.2





#65

Chlorobenzene

Concen: 5.086 ug/l

RT: 8.805 min Scan# 2414

Delta R.T. 0.003 min

Lab File: VV039142.D

Acq: 22 Sep 2025 15:37

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC005

Tgt Ion:112 Resp: 114424

Ion Ratio Lower Upper

112 100

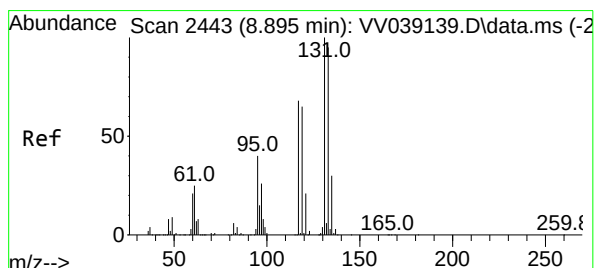
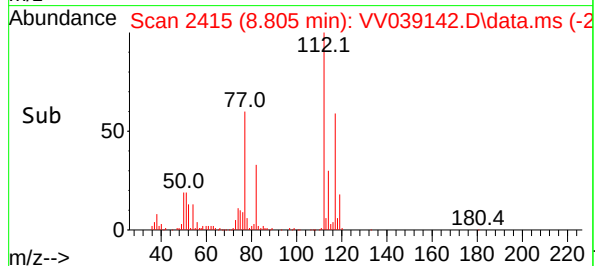
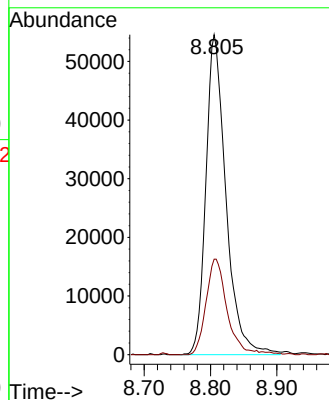
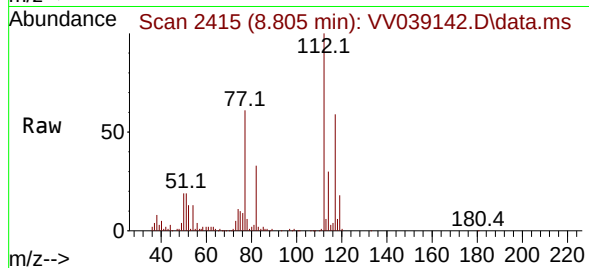
114 29.8 24.6 37.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025

Supervised By :Semsettin Yesilyurt 09/26/2025



#66

1,1,1,2-Tetrachloroethane

Concen: 5.005 ug/l

RT: 8.899 min Scan# 2444

Delta R.T. 0.003 min

Lab File: VV039142.D

Acq: 22 Sep 2025 15:37

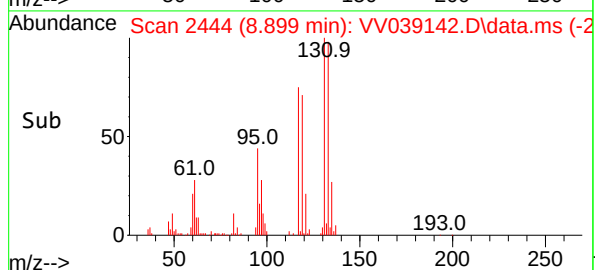
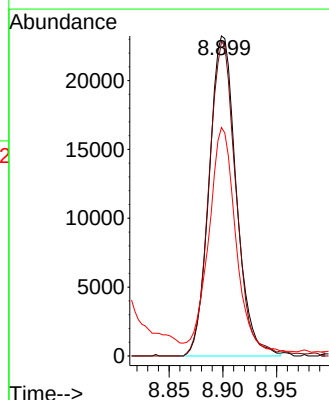
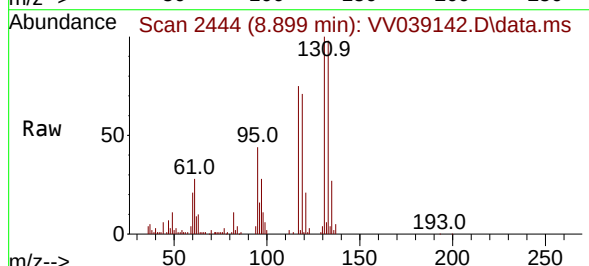
Tgt Ion:131 Resp: 40690

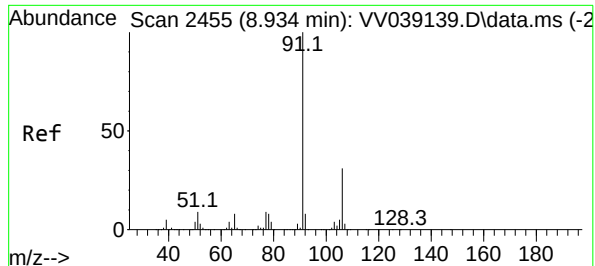
Ion Ratio Lower Upper

131 100

133 98.7 47.3 141.8

119 70.6 33.3 99.8





#67

Ethyl Benzene

Concen: 4.633 ug/l

RT: 8.940 min Scan# 2455

Delta R.T. 0.006 min

Lab File: VV039142.D

Acq: 22 Sep 2025 15:37

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC005

Tgt Ion: 91 Resp: 157790

Ion Ratio Lower Upper

91 100

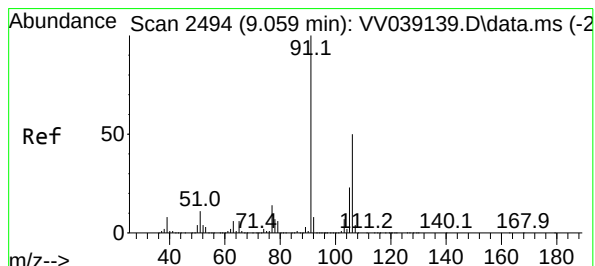
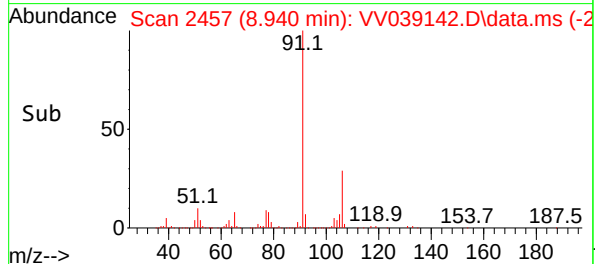
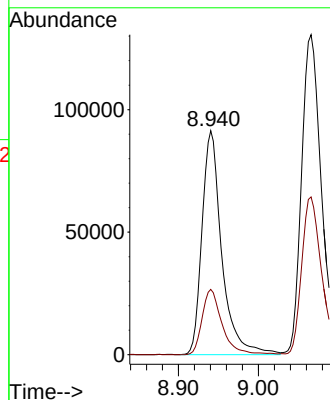
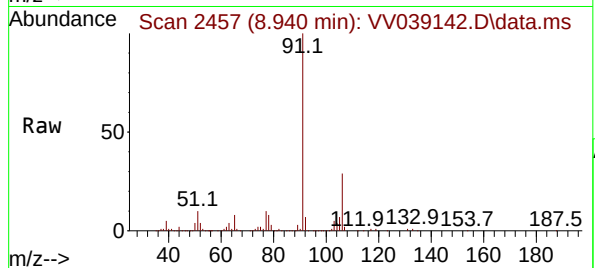
106 29.1 24.6 37.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025

Supervised By :Semsettin Yesilyurt 09/26/2025



#68

m/p-Xylenes

Concen: 8.762 ug/l

RT: 9.066 min Scan# 2496

Delta R.T. 0.007 min

Lab File: VV039142.D

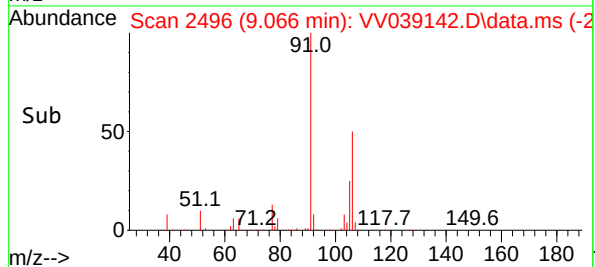
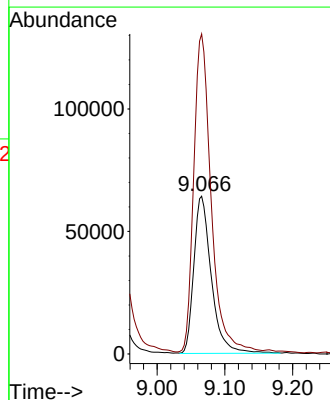
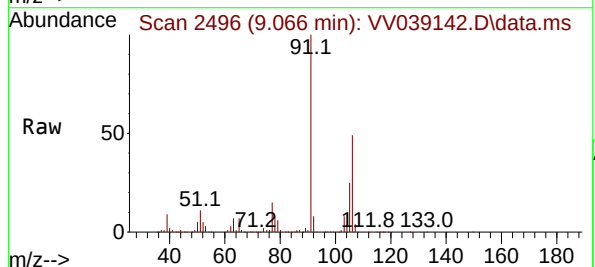
Acq: 22 Sep 2025 15:37

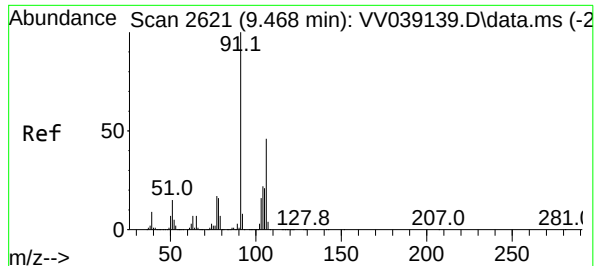
Tgt Ion:106 Resp: 115177

Ion Ratio Lower Upper

106 100

91 200.3 162.5 243.7





#69

o-Xylene

Concen: 4.406 ug/l

RT: 9.471 min Scan# 2621

Delta R.T. 0.003 min

Lab File: VV039142.D

Acq: 22 Sep 2025 15:37

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC005

Tgt Ion:106 Resp: 5128

Ion Ratio Lower Upper

106 100

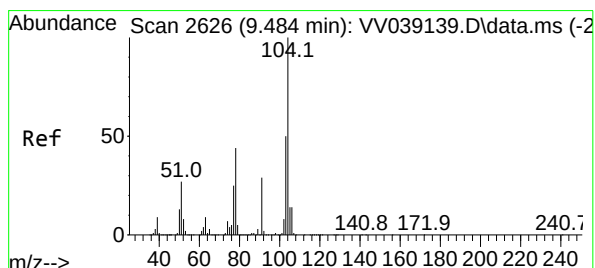
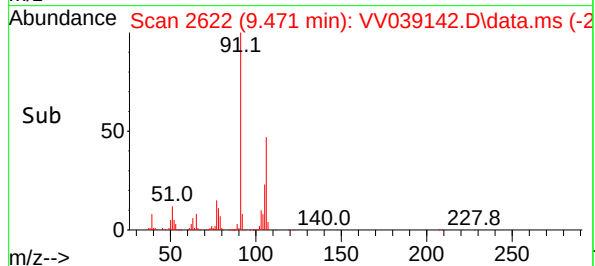
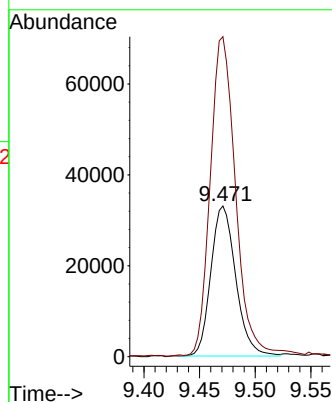
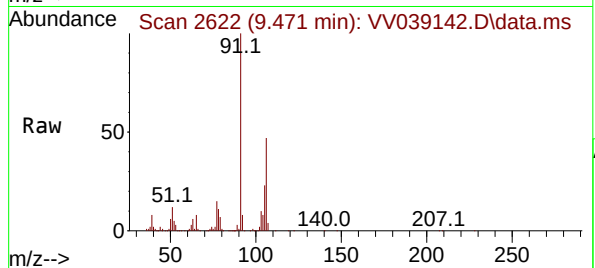
91 218.4 109.1 327.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025

Supervised By :Semsettin Yesilyurt 09/26/2025



#70

Styrene

Concen: 4.836 ug/l

RT: 9.490 min Scan# 2628

Delta R.T. 0.006 min

Lab File: VV039142.D

Acq: 22 Sep 2025 15:37

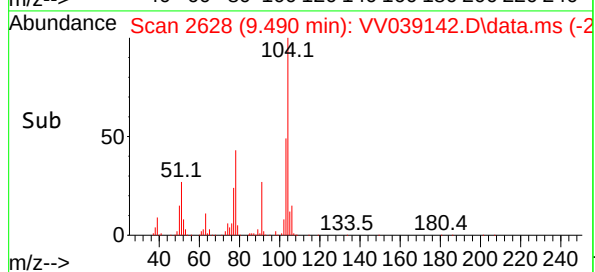
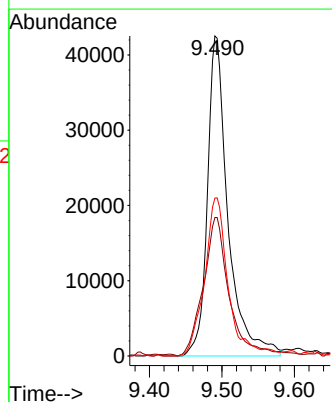
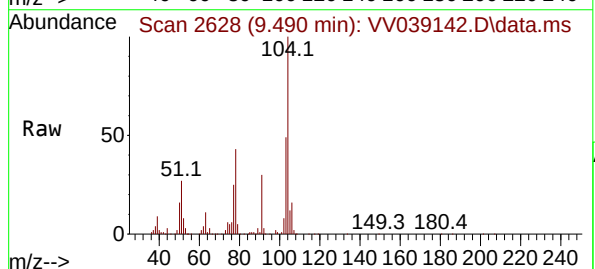
Tgt Ion:104 Resp: 83873

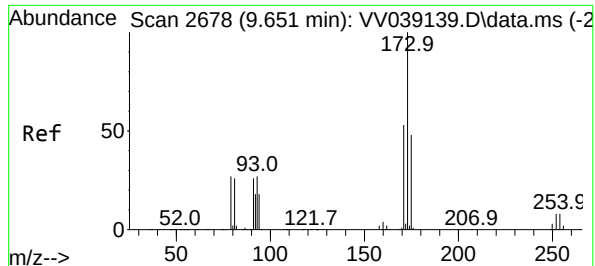
Ion Ratio Lower Upper

104 100

78 53.9 39.8 59.6

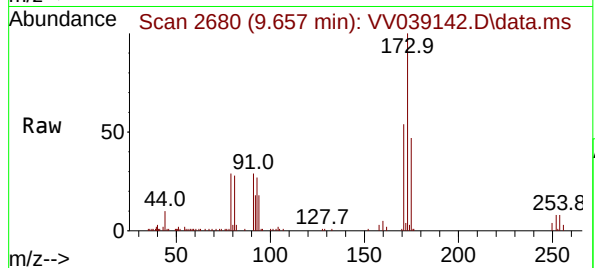
103 55.8 43.4 65.2





#71
Bromoform
Concen: 4.903 ug/l
RT: 9.657 min Scan# 20
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

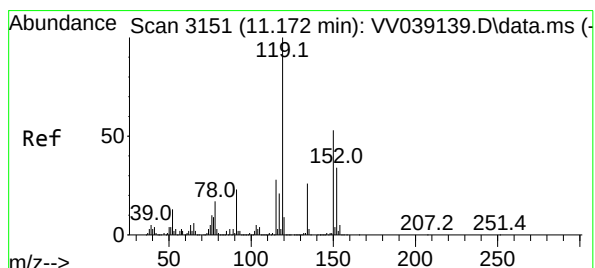
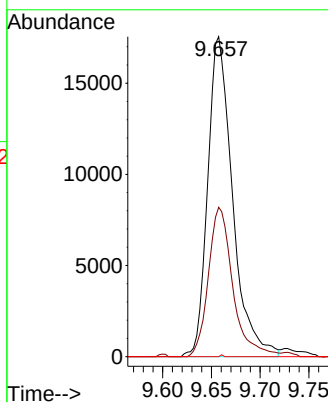
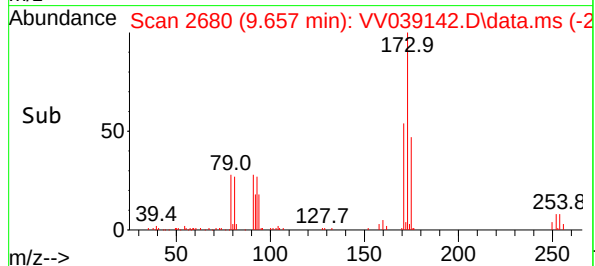
Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005



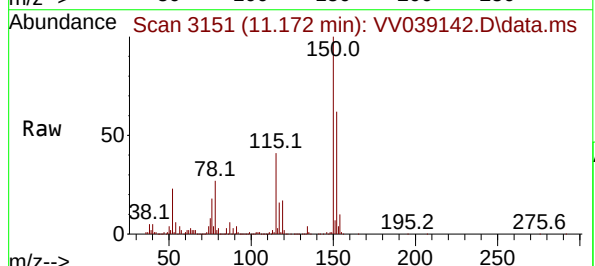
Tgt Ion:173 Resp: 3113
Ion Ratio Lower Upper
173 100
175 46.0 23.9 71.7
254 0.1 0.1 0.1

Manual Integrations
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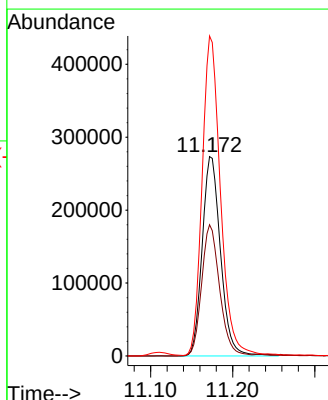
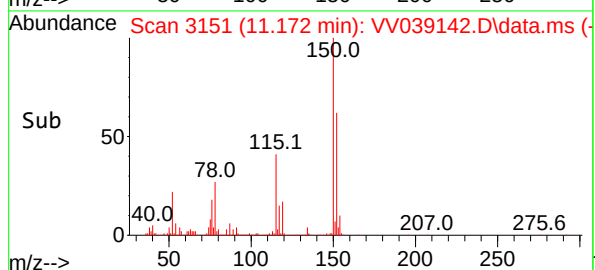
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

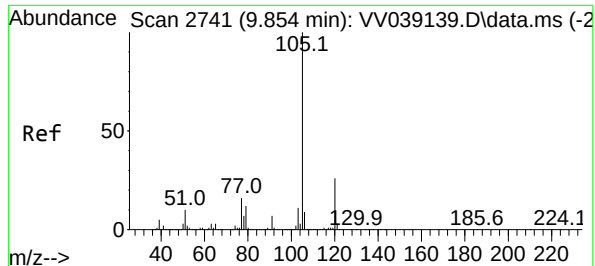


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3151
Delta R.T. -0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37



Tgt Ion:152 Resp: 425480
Ion Ratio Lower Upper
152 100
115 64.2 44.8 134.4
150 160.0 0.0 353.8





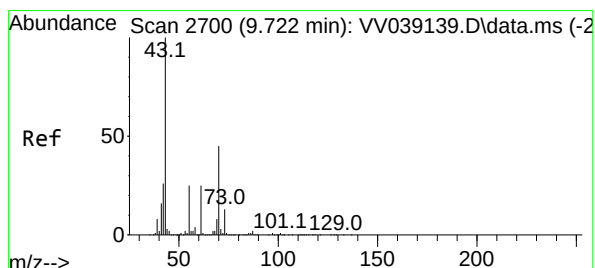
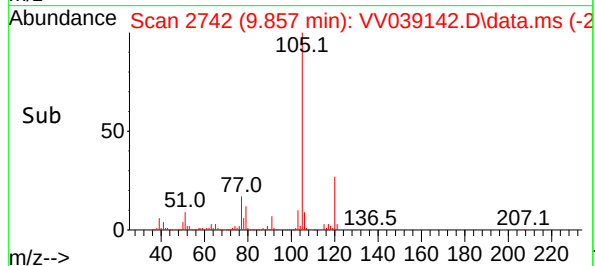
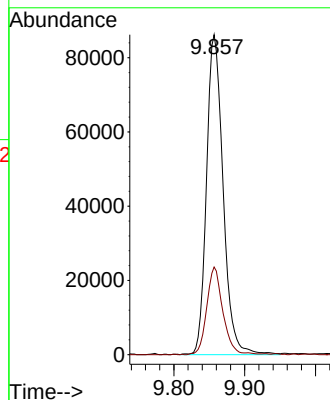
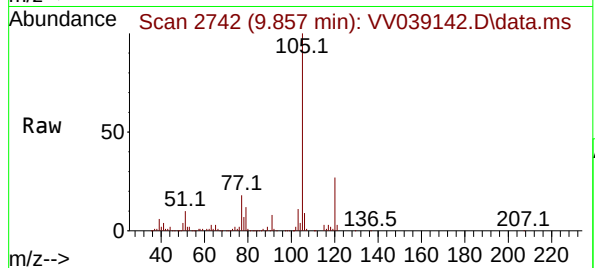
#73
Isopropylbenzene
Concen: 4.545 ug/l
RT: 9.857 min Scan# 2741
Delta R.T. 0.003 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Instrument :
MSVOA_V
ClientSampleId :
VSTDIC005

Tgt Ion:105 Resp: 14025
Ion Ratio Lower Upper
105 100
120 26.6 13.1 39.1

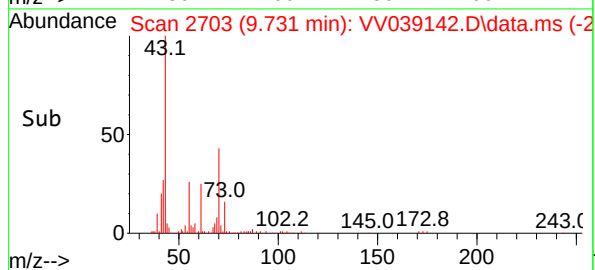
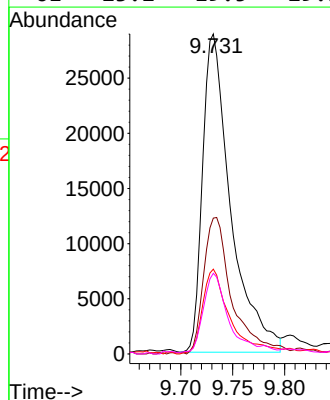
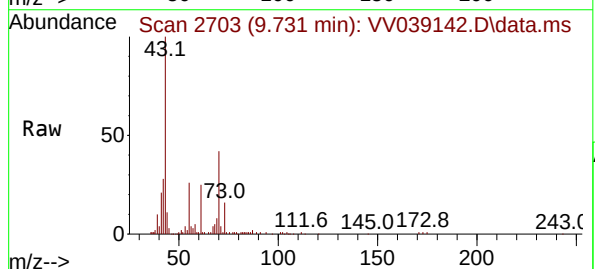
Manual Integrations
APPROVED

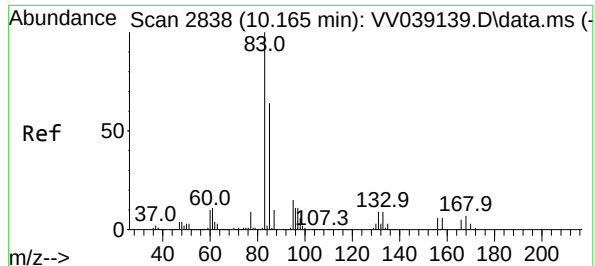
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#74
N-ethyl acetate
Concen: 4.422 ug/l
RT: 9.731 min Scan# 2703
Delta R.T. 0.010 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 43 Resp: 54436
Ion Ratio Lower Upper
43 100
70 43.3 35.4 53.0
55 26.1 20.6 30.8
61 23.2 19.5 29.3





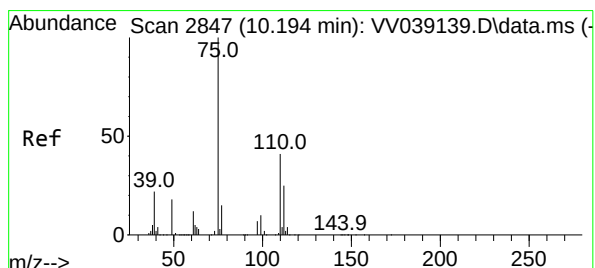
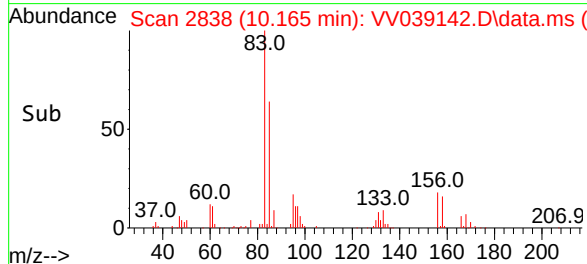
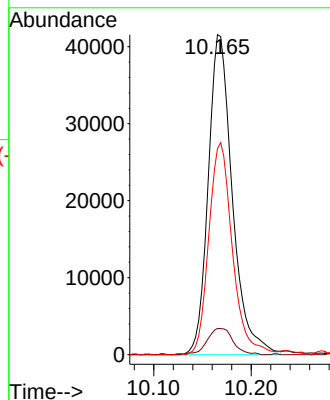
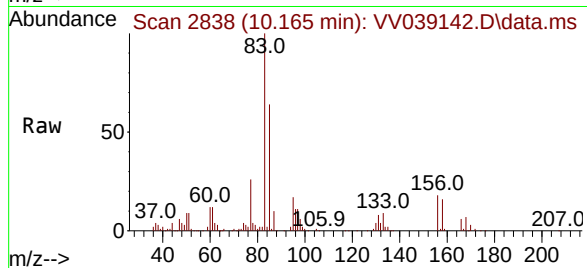
#75
1,1,2,2-Tetrachloroethane
Concen: 5.299 ug/l
RT: 10.165 min Scan# 2838
Delta R.T. -0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Instrument :
MSVOA_V
ClientSampleId :
VSTDIC005

Tgt Ion:	83	Resp:	7165
Ion Ratio	Lower	Upper	
83	100		
131	8.8	4.5	13.7
85	64.6	31.9	95.9

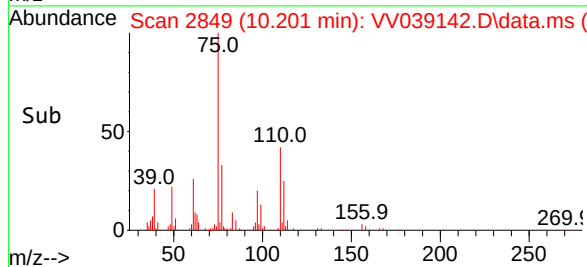
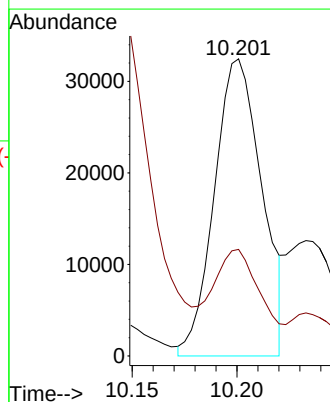
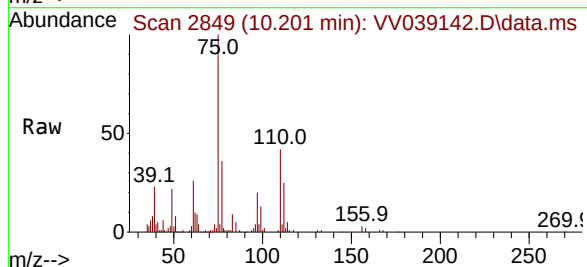
Manual Integrations
APPROVED

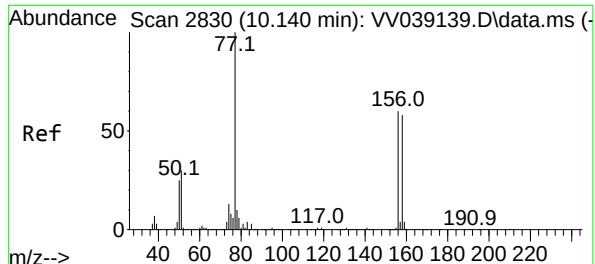
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#76
1,2,3-Trichloropropane
Concen: 5.273 ug/l m
RT: 10.201 min Scan# 2849
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:	75	Resp:	51079
Ion Ratio	Lower	Upper	
75	100		
77	10.8	11.3	33.8#





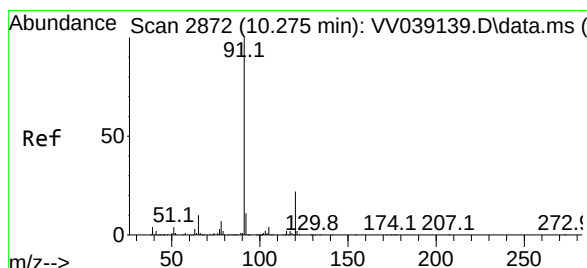
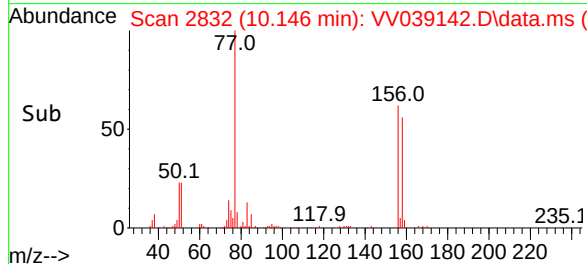
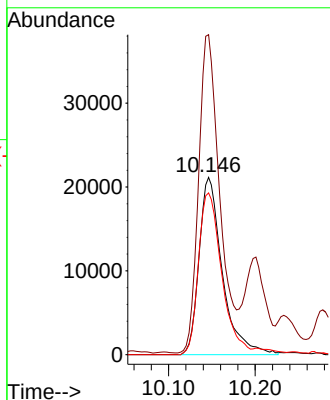
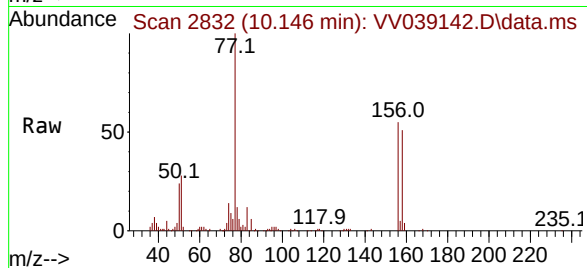
#77
Bromobenzene
Concen: 4.924 ug/l
RT: 10.146 min Scan# 2830
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Instrument :
MSVOA_V
ClientSampleId :
VSTDIC005

Tgt Ion:156 Resp: 39428
Ion Ratio Lower Upper
156 100
77 161.3 83.4 250.1
158 91.2 48.8 146.4

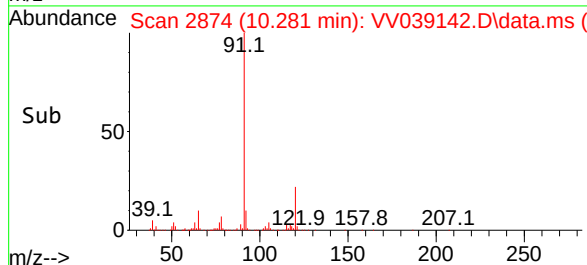
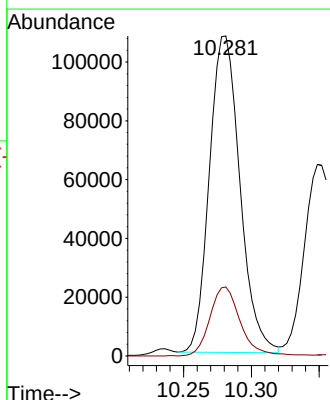
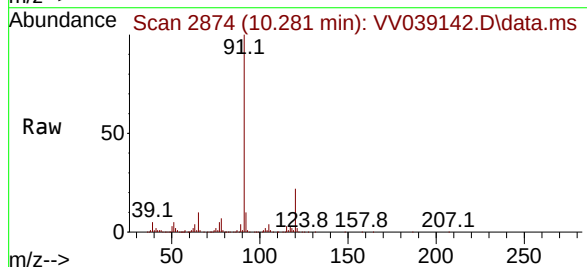
Manual Integrations
APPROVED

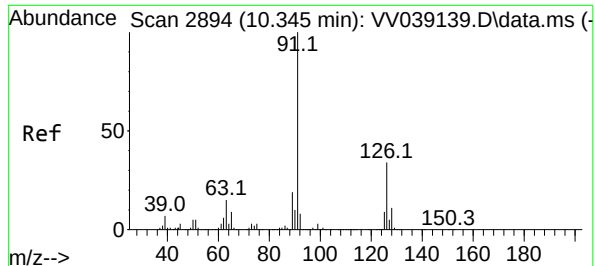
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#78
n-propylbenzene
Concen: 4.492 ug/l
RT: 10.281 min Scan# 2874
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 91 Resp: 168794
Ion Ratio Lower Upper
91 100
120 21.9 11.1 33.3





#79

2-Chlorotoluene

Concen: 4.892 ug/l

RT: 10.349 min Scan# 2894

Delta R.T. 0.003 min

Lab File: VV039142.D

Acq: 22 Sep 2025 15:37

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC005

Tgt Ion: 91 Resp: 11000

Ion Ratio Lower Upper

91 100

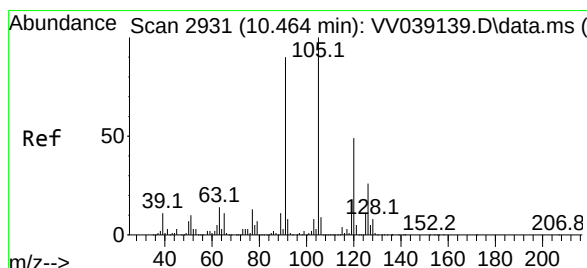
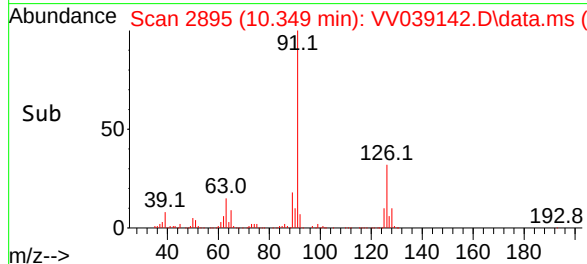
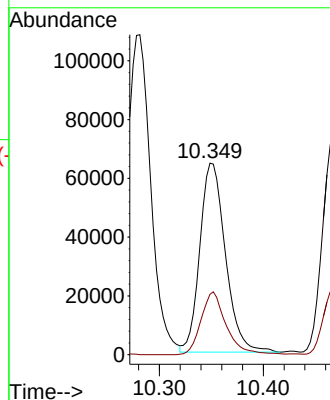
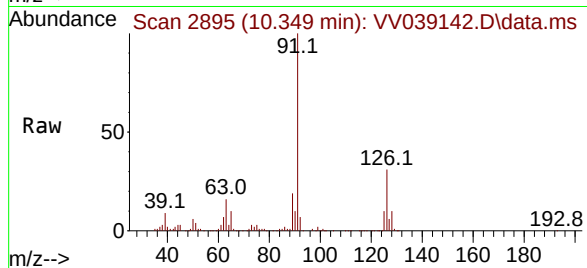
126 32.7 16.7 50.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025

Supervised By :Semsettin Yesilyurt 09/26/2025



#80

1,3,5-Trimethylbenzene

Concen: 4.474 ug/l

RT: 10.468 min Scan# 2932

Delta R.T. 0.003 min

Lab File: VV039142.D

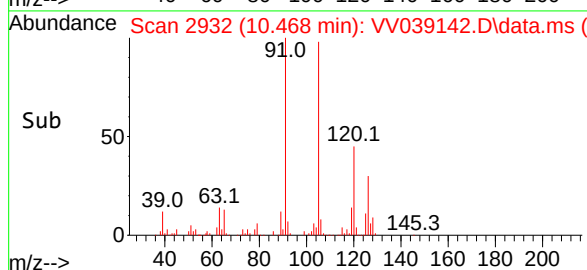
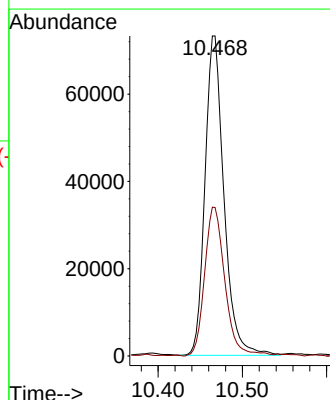
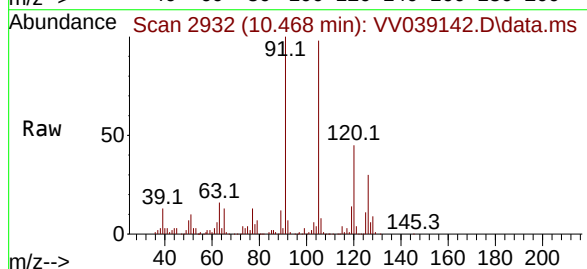
Acq: 22 Sep 2025 15:37

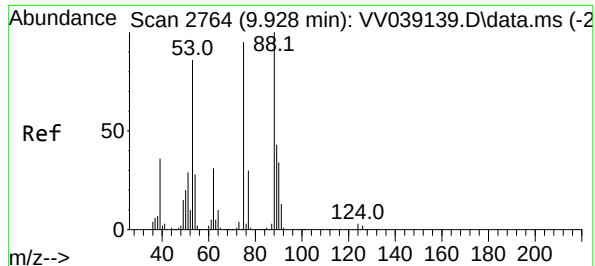
Tgt Ion:105 Resp: 114749

Ion Ratio Lower Upper

105 100

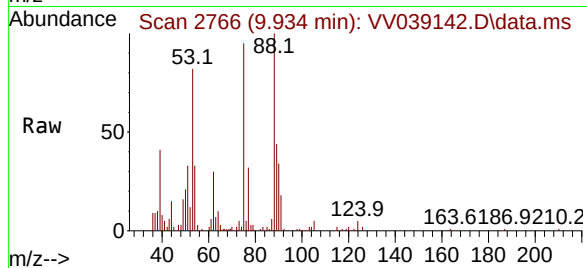
120 49.8 24.3 72.8





#81
trans-1,4-Dichloro-2-butene
Concen: 4.499 ug/l
RT: 9.934 min Scan# 21
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

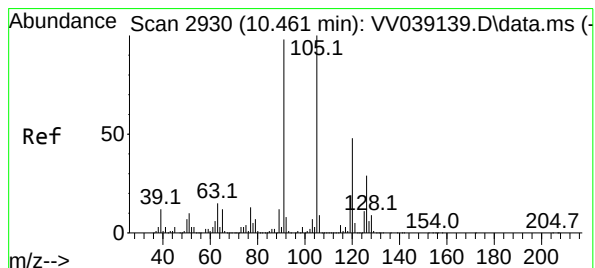
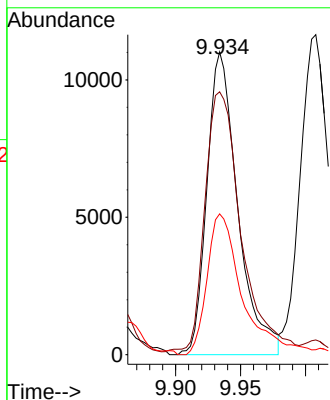
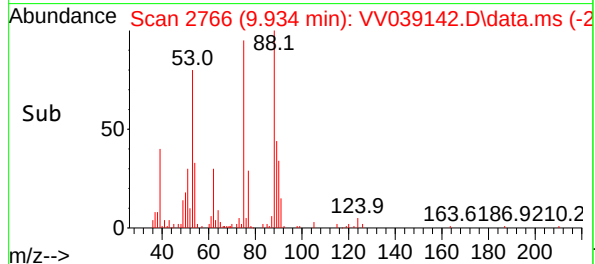
Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005



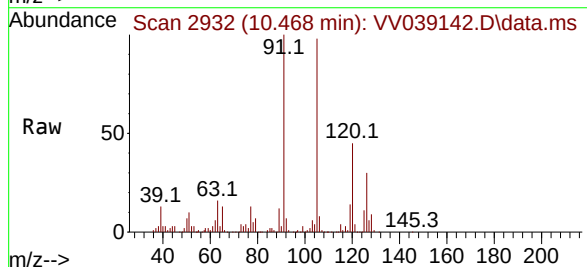
Tgt Ion: 75 Resp: 18154
Ion Ratio Lower Upper
75 100
53 99.7 72.5 108.7
89 53.4 37.2 55.8

Manual Integrations
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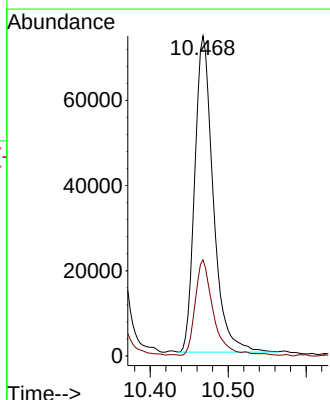
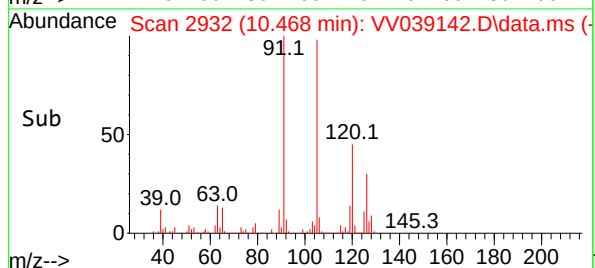
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

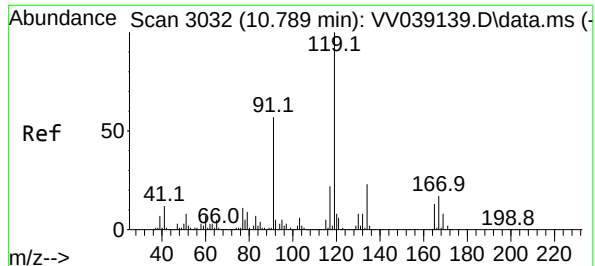


#82
4-Chlorotoluene
Concen: 4.695 ug/l
RT: 10.468 min Scan# 2932
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37



Tgt Ion: 91 Resp: 122429
Ion Ratio Lower Upper
91 100
126 28.7 14.5 43.6





#83

tert-Butylbenzene

Concen: 4.586 ug/l

RT: 10.789 min Scan# 3032

Delta R.T. -0.000 min

Lab File: VV039142.D

Acq: 22 Sep 2025 15:37

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC005

Tgt Ion:119 Resp: 117310

Ion Ratio Lower Upper

119 100

91 56.4 28.5 85.6

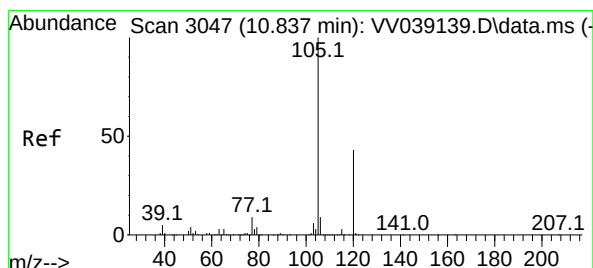
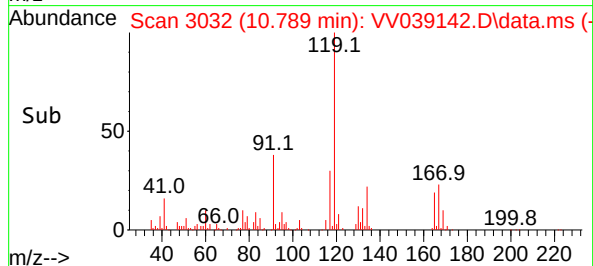
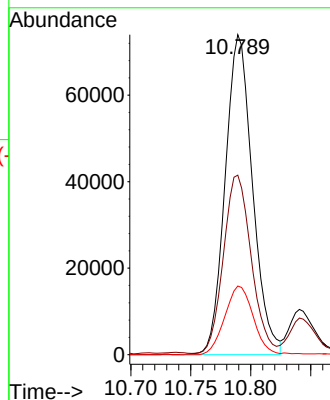
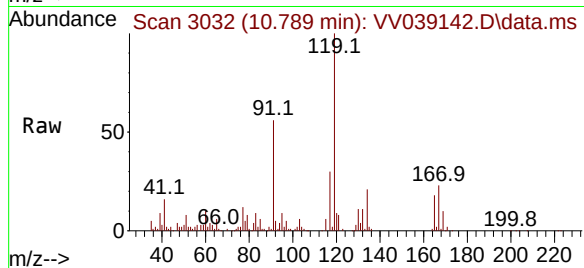
134 22.5 11.5 34.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025

Supervised By :Semsettin Yesilyurt 09/26/2025



#84

1,2,4-Trimethylbenzene

Concen: 4.343 ug/l

RT: 10.841 min Scan# 3048

Delta R.T. 0.003 min

Lab File: VV039142.D

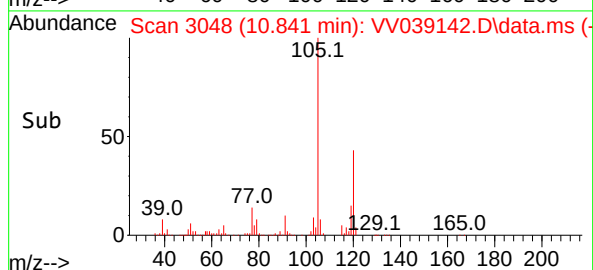
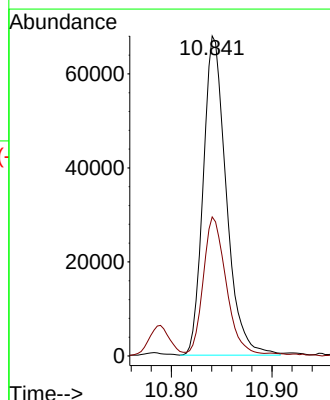
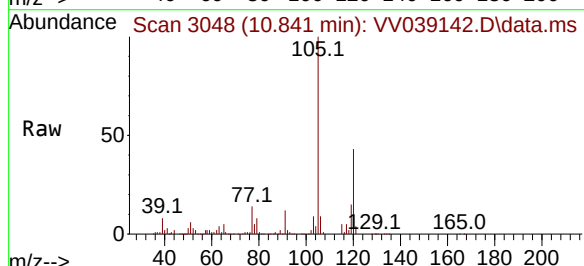
Acq: 22 Sep 2025 15:37

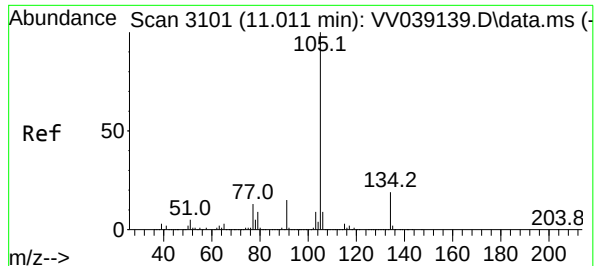
Tgt Ion:105 Resp: 108157

Ion Ratio Lower Upper

105 100

120 42.0 22.4 67.2





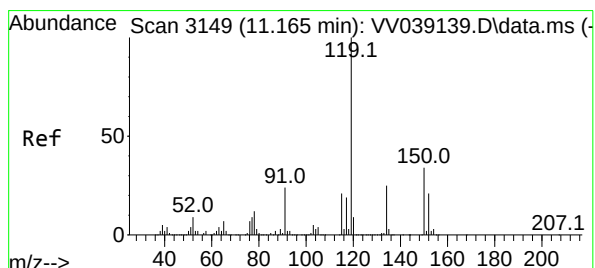
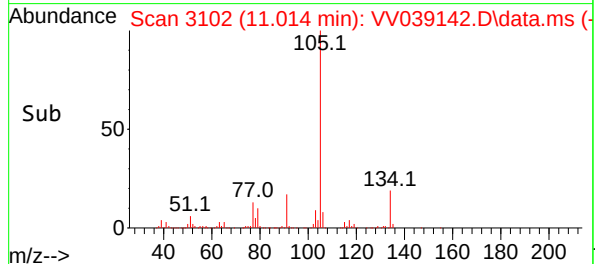
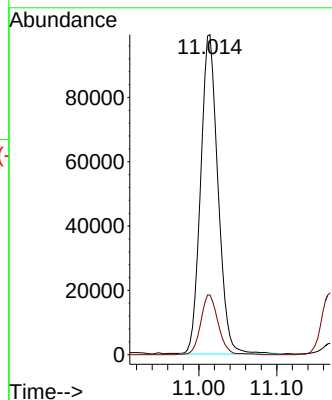
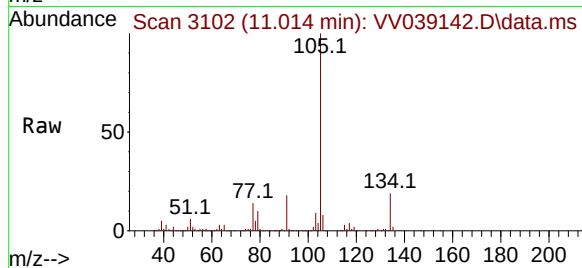
#85
sec-Butylbenzene
Concen: 4.525 ug/l
RT: 11.014 min Scan# 3101
Delta R.T. 0.003 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Instrument :
MSVOA_V
ClientSampleId :
VSTDIC005

Tgt Ion:105 Resp: 153520
Ion Ratio Lower Upper
105 100
134 18.9 9.6 28.8

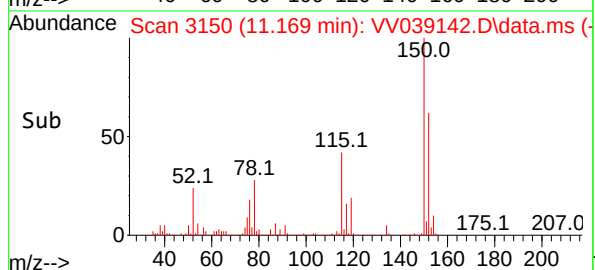
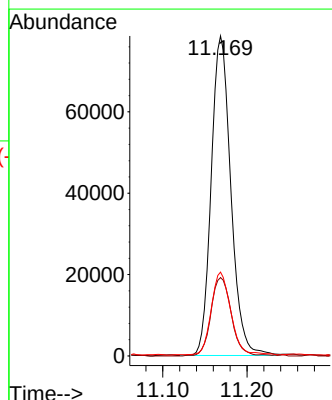
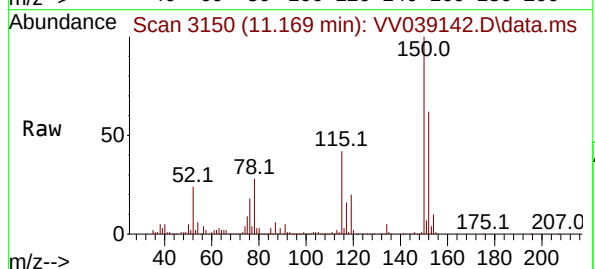
Manual Integrations
APPROVED

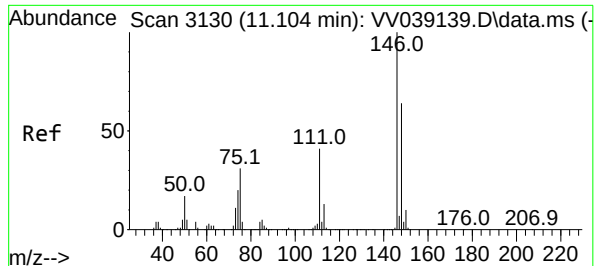
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#86
p-Isopropyltoluene
Concen: 4.511 ug/l
RT: 11.169 min Scan# 3150
Delta R.T. 0.003 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:119 Resp: 127377
Ion Ratio Lower Upper
119 100
134 25.3 12.7 38.0
91 25.7 12.0 36.1





#87

1,3-Dichlorobenzene

Concen: 5.102 ug/l

RT: 11.111 min Scan# 3132

Delta R.T. 0.006 min

Lab File: VV039142.D

Acq: 22 Sep 2025 15:37

Instrument :

MSVOA_V

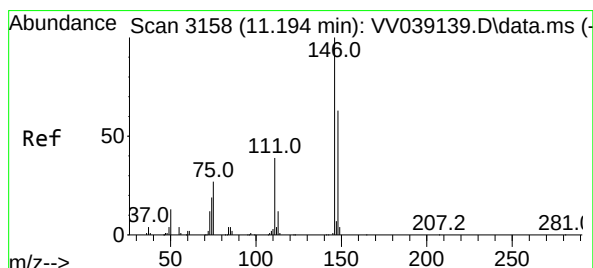
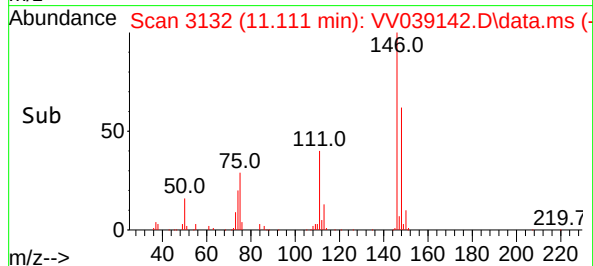
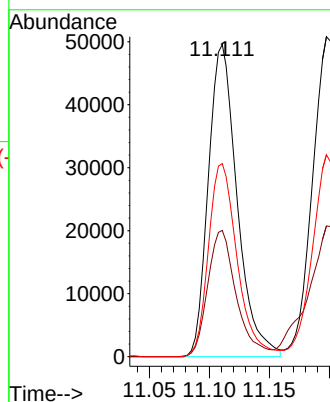
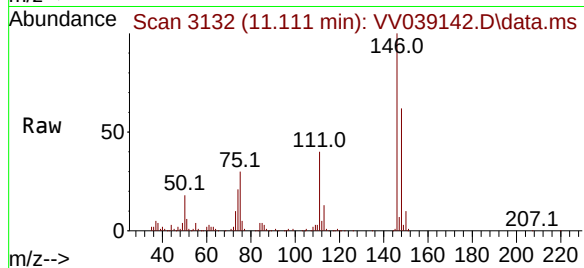
ClientSampleId :

VSTDIC005

Tgt Ion:146	Resp:	8267
Ion Ratio	Lower	Upper
146	100	
111	40.3	20.9 62.8
148	62.1	31.8 95.3

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#88

1,4-Dichlorobenzene

Concen: 5.082 ug/l

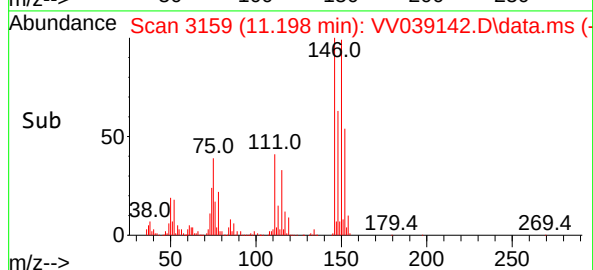
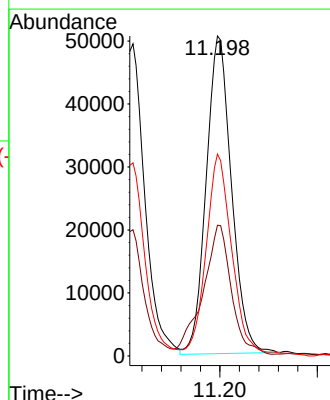
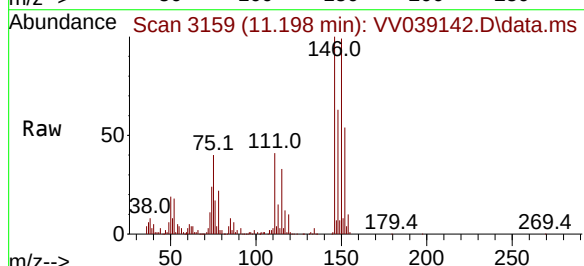
RT: 11.198 min Scan# 3159

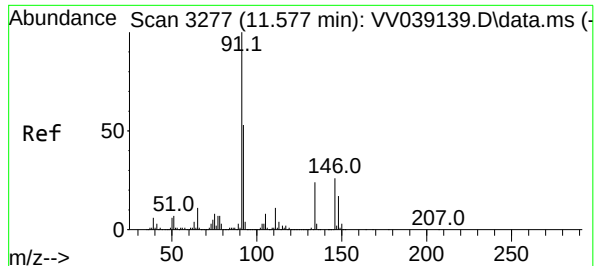
Delta R.T. 0.003 min

Lab File: VV039142.D

Acq: 22 Sep 2025 15:37

Tgt Ion:146	Resp:	91001
Ion Ratio	Lower	Upper
146	100	
111	45.9	20.3 60.8
148	65.7	31.4 94.2





#89

n-Butylbenzene

Concen: 4.443 ug/l

RT: 11.583 min Scan# 31

Delta R.T. 0.006 min

Lab File: VV039142.D

Acq: 22 Sep 2025 15:37

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC005

Tgt Ion: 91 Resp: 11982

Ion Ratio Lower Upper

91 100

92 49.9 26.6 79.8

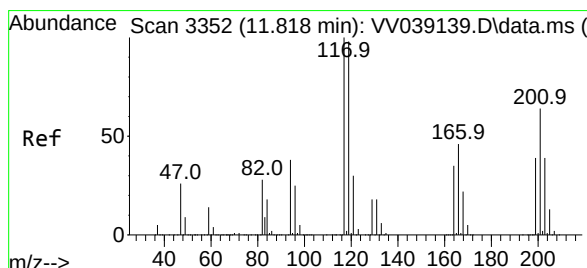
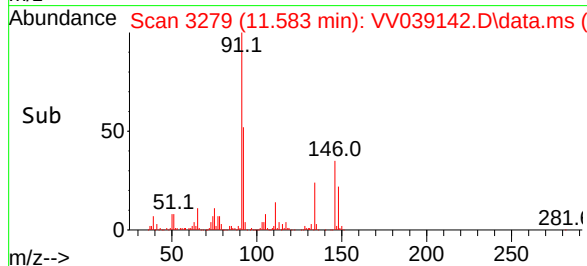
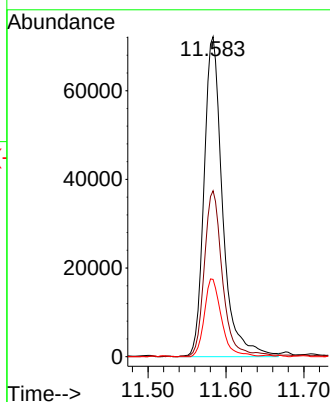
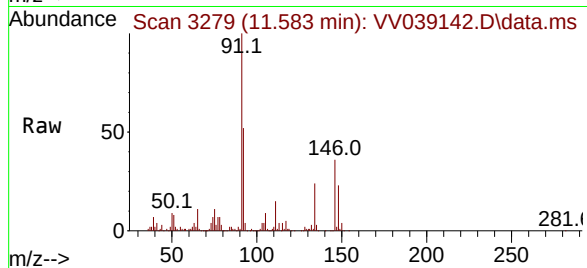
134 22.4 12.1 36.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025

Supervised By :Semsettin Yesilyurt 09/26/2025



#90

Hexachloroethane

Concen: 5.143 ug/l

RT: 11.818 min Scan# 3352

Delta R.T. -0.000 min

Lab File: VV039142.D

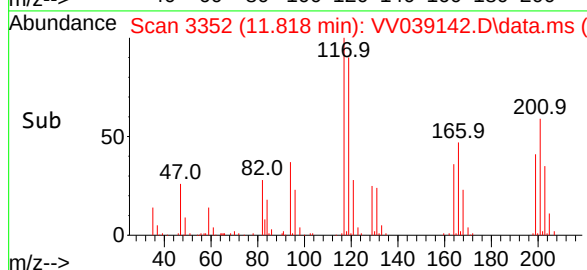
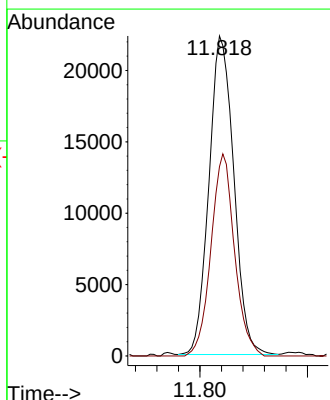
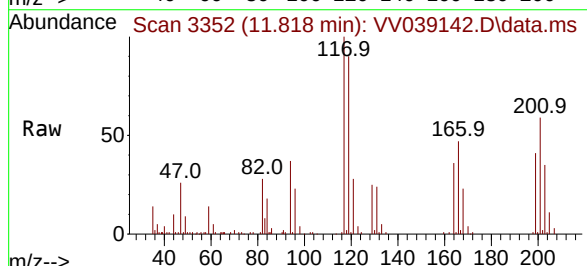
Acq: 22 Sep 2025 15:37

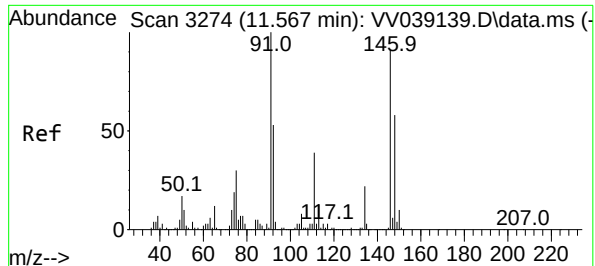
Tgt Ion:117 Resp: 35762

Ion Ratio Lower Upper

117 100

201 60.2 32.3 96.8





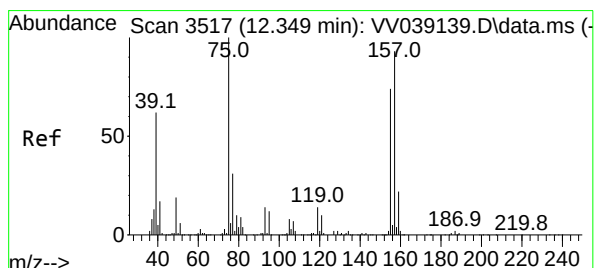
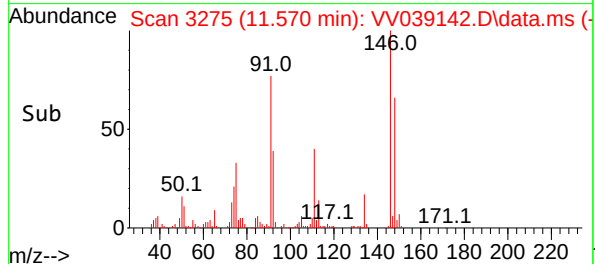
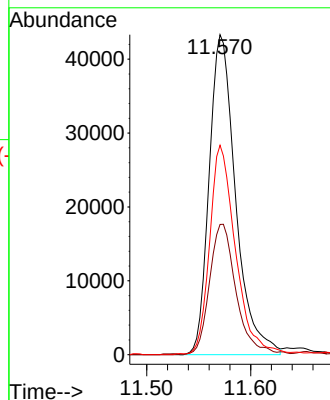
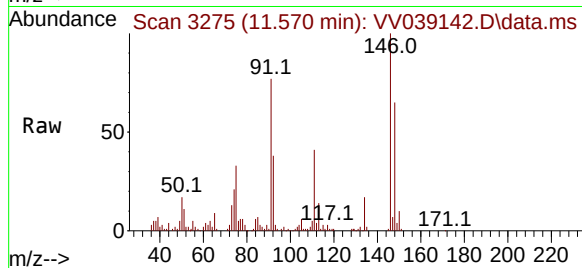
#91
1,2-Dichlorobenzene
Concen: 5.052 ug/l
RT: 11.570 min Scan# 31
Delta R.T. 0.003 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Instrument :
MSVOA_V
ClientSampleId :
VSTDIC005

Tgt Ion:	146	Resp:	7647
Ion Ratio	Lower	Upper	
146	100		
111	41.0	21.5	64.5
148	64.2	31.9	95.7

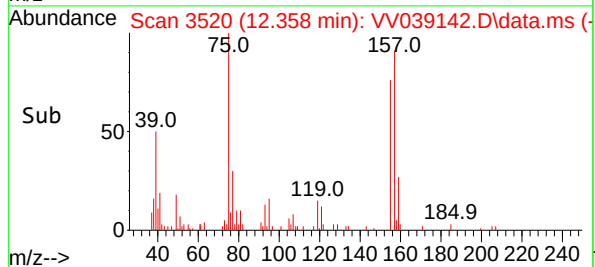
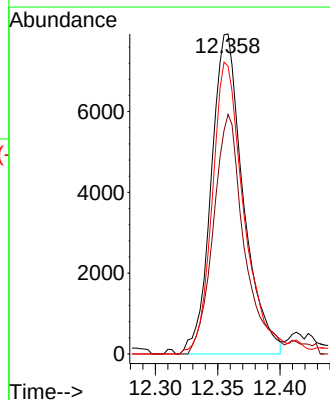
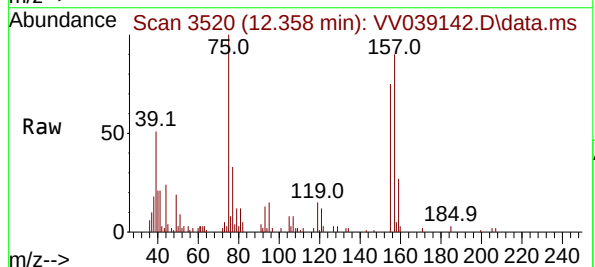
Manual Integrations
APPROVED

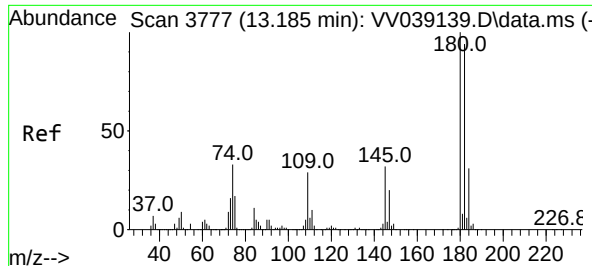
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 5.211 ug/l
RT: 12.358 min Scan# 3520
Delta R.T. 0.009 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:	75	Resp:	14163
Ion Ratio	Lower	Upper	
75	100		
155	71.9	38.6	115.8
157	90.2	49.5	148.3





#93

1,2,4-Trichlorobenzene

Concen: 4.583 ug/l

RT: 13.191 min Scan# 3777

Delta R.T. 0.006 min

Lab File: VV039142.D

Acq: 22 Sep 2025 15:37

Instrument :

MSVOA_V

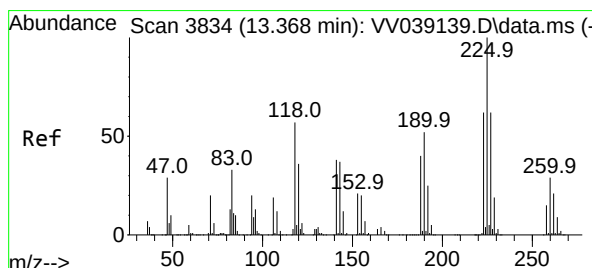
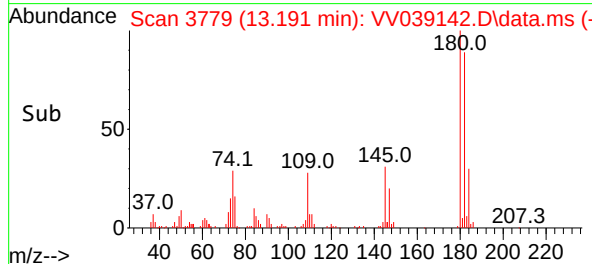
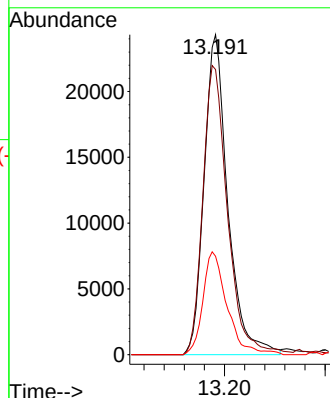
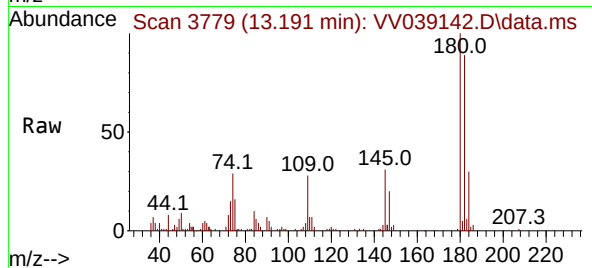
ClientSampleId :

VSTDIC005

Tgt Ion:	180	Resp:	3977
Ion Ratio	Lower	Upper	
180	100		
182	94.0	47.1	141.4
145	32.8	16.3	48.8

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#94

Hexachlorobutadiene

Concen: 5.001 ug/l

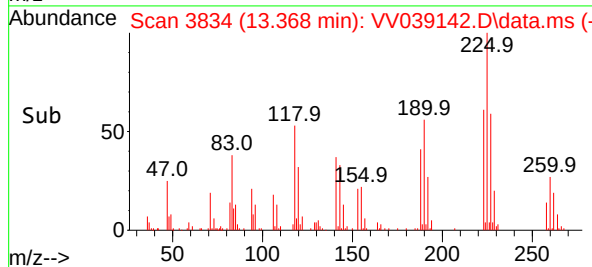
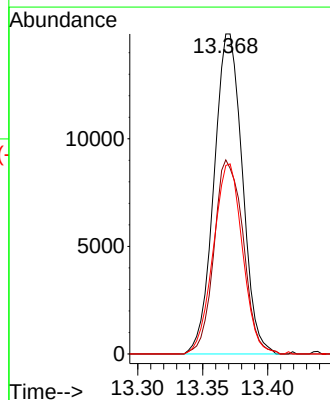
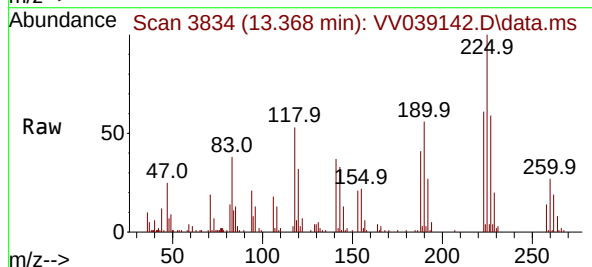
RT: 13.368 min Scan# 3834

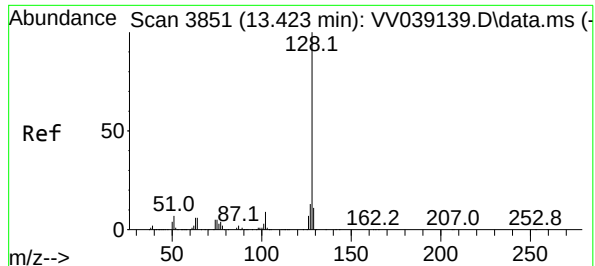
Delta R.T. -0.000 min

Lab File: VV039142.D

Acq: 22 Sep 2025 15:37

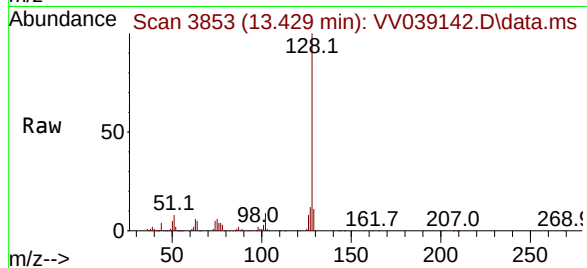
Tgt Ion:	225	Resp:	22549
Ion Ratio	Lower	Upper	
225	100		
223	62.4	31.6	94.7
227	61.2	31.8	95.4





#95
Naphthalene
Concen: 4.062 ug/l
RT: 13.429 min Scan# 3853
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

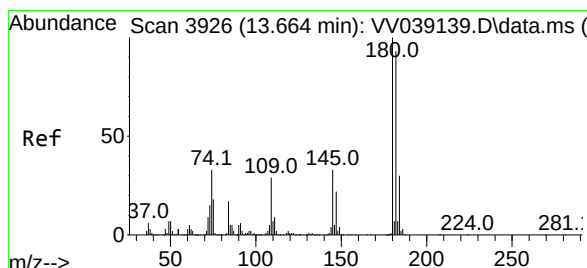
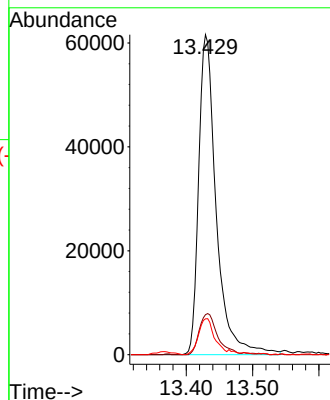
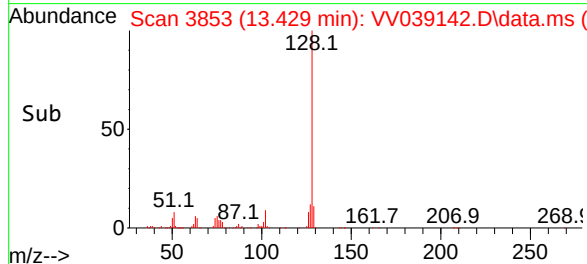
Instrument :
MSVOA_V
ClientSampleId :
VSTDIC005



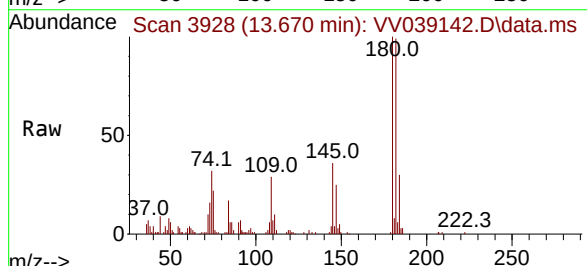
Tgt Ion:128 Resp: 11339
Ion Ratio Lower Upper
128 100
127 13.4 10.3 15.5
129 10.2 8.6 13.0

Manual Integrations
APPROVED

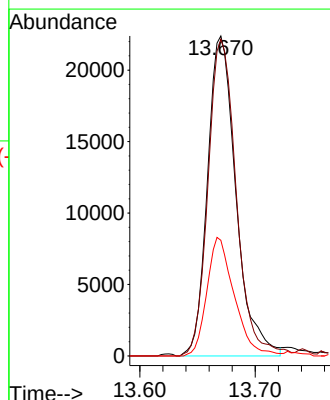
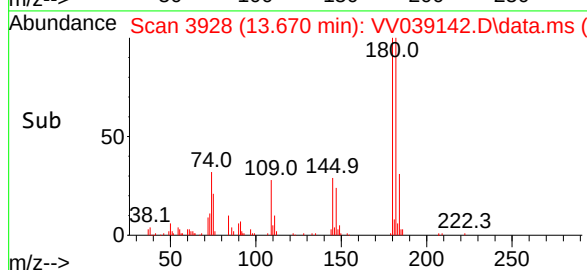
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#96
1,2,3-Trichlorobenzene
Concen: 4.317 ug/l
RT: 13.670 min Scan# 3928
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37



Tgt Ion:180 Resp: 38315
Ion Ratio Lower Upper
180 100
182 98.3 46.9 140.8
145 35.6 17.0 51.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
 Data File : VV039143.D
 Acq On : 22 Sep 2025 16:35
 Operator : SY/MD
 Sample : VSTDIC001
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDIC001

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
 Supervised By :Semsettin Yesilyurt 09/26/2025

Quant Time: Sep 24 07:26:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 24 07:14:23 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	4.603	168	406498	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	735855	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	700418	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.175	152	322677	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	0.000	65	0d	0.000	ug/l	
Spiked Amount	50.000	Range	81 - 118	Recovery	=	0.000%#
35) Dibromofluoromethane	0.000	113	0d	0.000	ug/l	
Spiked Amount	50.000	Range	80 - 119	Recovery	=	0.000%#
50) Toluene-d8	0.000	98	0d	0.000	ug/l	
Spiked Amount	50.000	Range	89 - 112	Recovery	=	0.000%#
62) 4-Bromofluorobenzene	0.000	95	0d	0.000	ug/l	
Spiked Amount	50.000	Range	85 - 114	Recovery	=	0.000%#
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.121	85	7593	1.180	ug/l	98
3) Chloromethane	1.230	50	7695	1.114	ug/l	99
4) Vinyl Chloride	1.297	62	8342	1.128	ug/l	98
6) Chloroethane	1.564	64	7440	0.673	ug/l	96
7) Trichlorofluoromethane	1.725	101	12570	1.174	ug/l	85
8) Diethyl Ether	1.921	74	4650	1.170	ug/l	92
9) 1,1,2-Trichlorotrifluo...	2.082	101	7630	1.198	ug/l	96
12) 1,1-Dichloroethene	2.085	96	7094	1.157	ug/l #	66
14) Allyl chloride	2.362	41	12383	1.131	ug/l	97
15) Acrylonitrile	2.683	53	23873	5.989	ug/l	96
16) Acetone	2.127	43	28927	3.224	ug/l	96
17) Carbon Disulfide	2.256	76	21708	1.158	ug/l	98
18) Methyl Acetate	2.391	43	9742	1.118	ug/l	98
19) Methyl tert-butyl Ether	2.715	73	21063	1.078	ug/l #	89
20) Methylene Chloride	2.458	84	16152	0.632	ug/l	90
21) trans-1,2-Dichloroethene	2.709	96	7797	1.195	ug/l	92
22) Diisopropyl ether	3.220	45	21620	1.032	ug/l #	34
23) Vinyl Acetate	3.204	43	91192	4.977	ug/l	99
24) 1,1-Dichloroethane	3.121	63	15790	1.233	ug/l #	94
25) 2-Butanone	3.921	43	22515m	4.862	ug/l	
26) 2,2-Dichloropropane	3.815	77	15492m	1.369	ug/l	
27) cis-1,2-Dichloroethene	3.834	96	8138	1.131	ug/l	91
28) Bromochloromethane	4.162	49	6039	1.068	ug/l #	53
29) Tetrahydrofuran	4.262	42	13621	4.619	ug/l #	65
30) Chloroform	4.288	83	15288	1.143	ug/l	96
32) 1,1,1-Trichloroethane	4.519	97	12926	1.116	ug/l	93
36) 1,1-Dichloropropene	4.764	75	9572m	1.063	ug/l	
37) Ethyl Acetate	4.030	43	12136m	1.098	ug/l	
38) Carbon Tetrachloride	4.735	117	13098m	1.207	ug/l	
39) Methylcyclohexane	6.050	83	9159	0.848	ug/l	91
40) Benzene	5.027	78	28487	0.978	ug/l	98
41) Methacrylonitrile	4.223	41	2717m	2.427	ug/l	
42) 1,2-Dichloroethane	5.059	62	10892	1.067	ug/l	95
43) Isopropyl Acetate	5.236	43	12786m	0.840	ug/l	
44) Trichloroethene	5.850	130	6408	0.953	ug/l	84
45) 1,2-Dichloropropane	6.104	63	6838	0.945	ug/l	93

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
 Data File : VV039143.D
 Acq On : 22 Sep 2025 16:35
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :

MSVOA_V

ClientSampleId :

VSTDICC001

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025

Supervised By :Semsettin Yesilyurt 09/26/2025

Quant Time: Sep 24 07:26:45 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M

Quant Title : SW846 8260

QLast Update : Wed Sep 24 07:14:23 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) Dibromomethane	6.249	93	5835	1.053	ug/l	89
47) Bromodichloromethane	6.439	83	12206	1.066	ug/l #	90
48) Methyl methacrylate	6.371	41	7232m	1.038	ug/l	
49) 1,4-Dioxane	6.333	88	2721m	24.855	ug/l	
51) 4-Methyl-2-Pentanone	7.165	43	33797	3.472	ug/l	96
52) Toluene	7.326	92	13265	0.786	ug/l	87
53) t-1,3-Dichloropropene	7.606	75	8060	0.807	ug/l	90
54) cis-1,3-Dichloropropene	6.973	75	8754	0.794	ug/l #	93
55) 1,1,2-Trichloroethane	7.776	97	8140	1.075	ug/l	91
56) Ethyl methacrylate	7.747	69	7455m	0.829	ug/l	
57) 1,3-Dichloropropane	7.956	76	11732	0.982	ug/l	94
58) 2-Chloroethyl Vinyl ether	6.841	63	10011	11.289	ug/l	98
59) 2-Hexanone	8.091	43	17015	4.307	ug/l	98
60) Dibromochloromethane	8.172	129	9122	1.057	ug/l	87
61) 1,2-Dibromoethane	8.288	107	7129	0.921	ug/l	90
64) Tetrachloroethene	7.899	164	5814	0.991	ug/l	90
65) Chlorobenzene	8.812	112	20007	1.025	ug/l #	88
66) 1,1,1,2-Tetrachloroethane	8.902	131	7603	1.079	ug/l #	61
67) Ethyl Benzene	8.947	91	24171	0.818	ug/l	94
68) m/p-Xylenes	9.072	106	16239	1.425	ug/l	98
69) o-Xylene	9.477	106	7250	0.718	ug/l	79
70) Styrene	9.503	104	11594	2.083	ug/l #	80
71) Bromoform	9.667	173	5558	1.009	ug/l #	94
73) Isopropylbenzene	9.860	105	20820	0.890	ug/l	98
74) N-amyl acetate	9.747	43	6654	0.713	ug/l #	91
75) 1,1,2,2-Tetrachloroethane	10.169	83	12746	1.243	ug/l	95
76) 1,2,3-Trichloropropane	10.207	75	8871	1.207	ug/l	100
77) Bromobenzene	10.159	156	6311	1.039	ug/l	93
78) n-propylbenzene	10.284	91	24996	0.877	ug/l	96
79) 2-Chlorotoluene	10.355	91	13640	0.800	ug/l	89
80) 1,3,5-Trimethylbenzene	10.471	105	15886	0.817	ug/l	96
82) 4-Chlorotoluene	10.474	91	15363	0.777	ug/l	91
83) tert-Butylbenzene	10.789	119	18552	0.956	ug/l	99
84) 1,2,4-Trimethylbenzene	10.847	105	15048	0.797	ug/l	95
85) sec-Butylbenzene	11.014	105	23268	0.904	ug/l	98
86) p-Isopropyltoluene	11.168	119	18549	0.866	ug/l	86
87) 1,3-Dichlorobenzene	11.117	146	12747	1.037	ug/l	97
88) 1,4-Dichlorobenzene	11.201	146	16279m	1.199	ug/l	
89) n-Butylbenzene	11.586	91	17079	0.835	ug/l	94
90) Hexachloroethane	11.818	117	6736	1.277	ug/l	94
91) 1,2-Dichlorobenzene	11.577	146	12486	1.088	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	12.361	75	3071	0.690	ug/l	75
93) 1,2,4-Trichlorobenzene	13.197	180	6637	1.008	ug/l	99
94) Hexachlorobutadiene	13.368	225	4406	1.288	ug/l	95
95) Naphthalene	13.438	128	19706m	0.931	ug/l	
96) 1,2,3-Trichlorobenzene	13.676	180	7184	1.067	ug/l	97

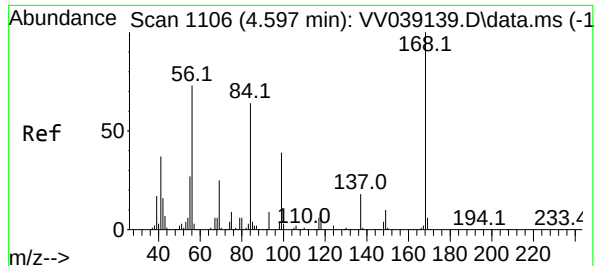
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

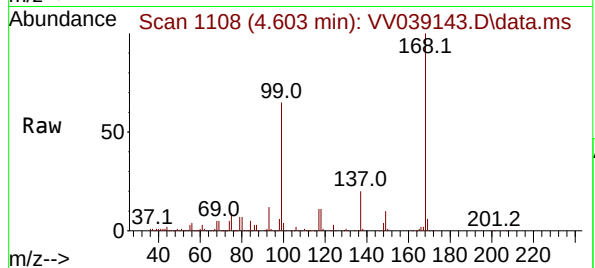
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.603 min Scan# 1106
Delta R.T. 0.006 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

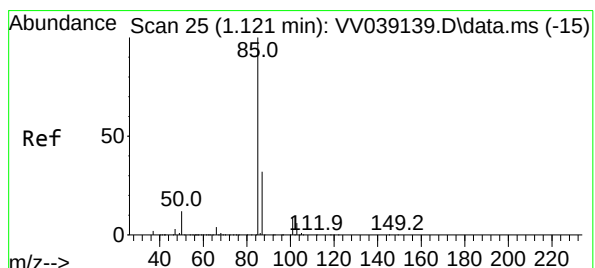
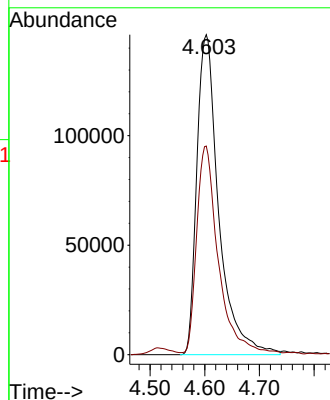
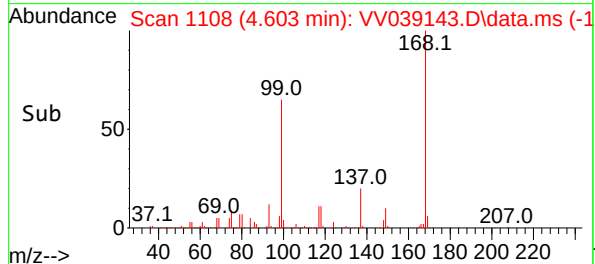
Instrument :
MSVOA_V
ClientSampleId :
VSTDIC001



Tgt Ion:168 Resp: 406498
Ion Ratio Lower Upper
168 100
99 64.6 49.6 74.4

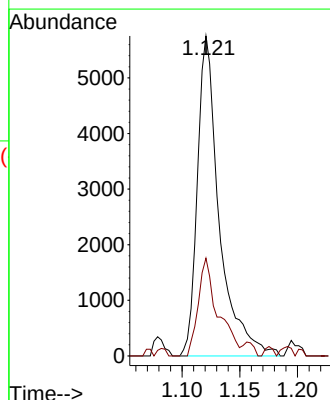
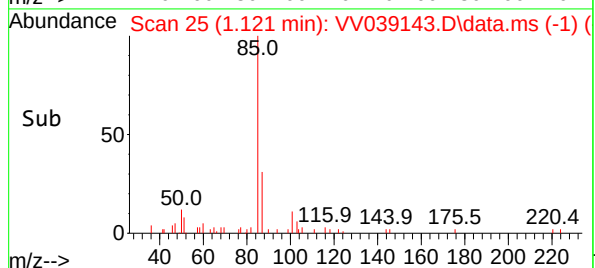
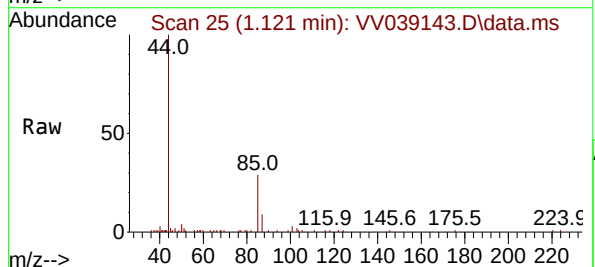
Manual Integrations
APPROVED

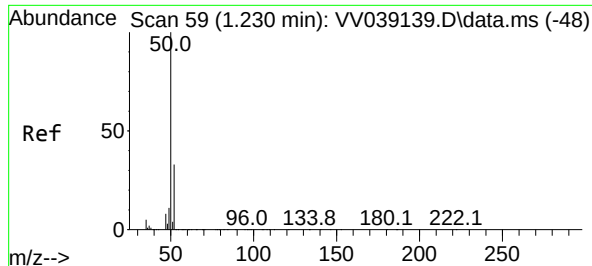
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#2
Dichlorodifluoromethane
Concen: 1.180 ug/l
RT: 1.121 min Scan# 25
Delta R.T. -0.000 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 85 Resp: 7593
Ion Ratio Lower Upper
85 100
87 30.5 16.0 47.9





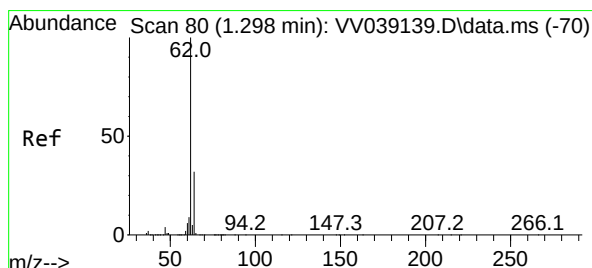
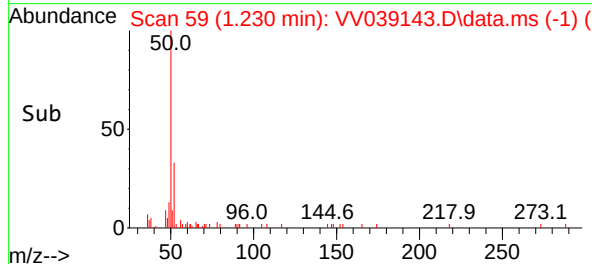
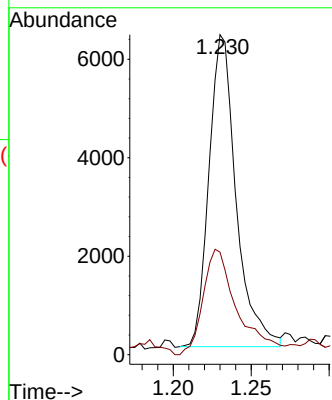
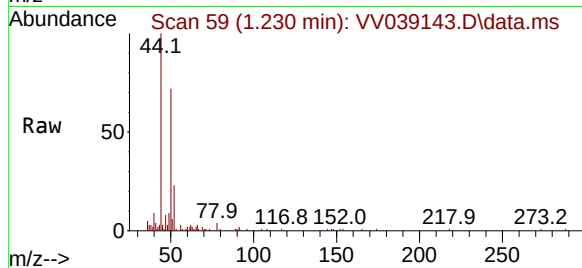
#3
Chloromethane
Concen: 1.114 ug/l
RT: 1.230 min Scan# 59
Delta R.T. -0.000 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

Tgt Ion: 50 Resp: 769
Ion Ratio Lower Upper
50 100
52 32.8 26.0 39.0

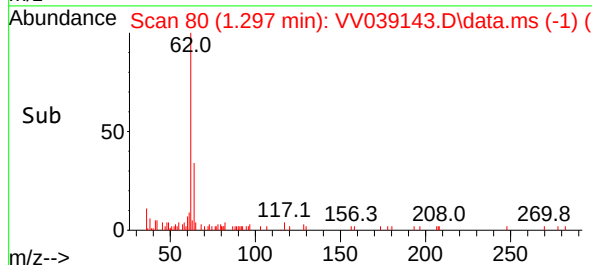
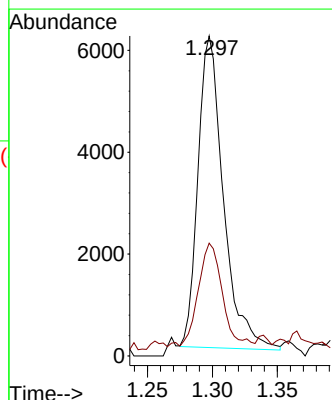
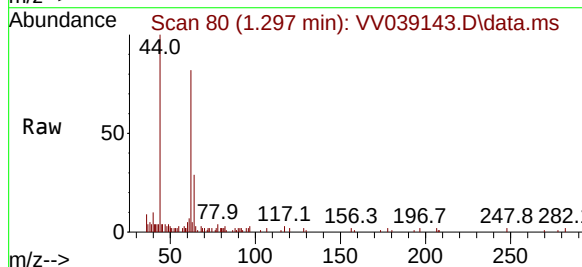
Manual Integrations
APPROVED

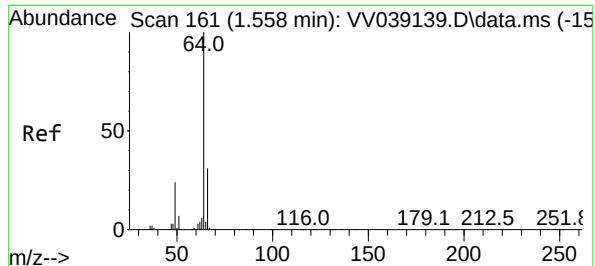
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#4
Vinyl Chloride
Concen: 1.128 ug/l
RT: 1.297 min Scan# 80
Delta R.T. -0.000 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

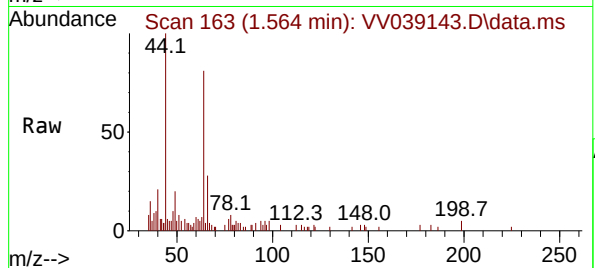
Tgt Ion: 62 Resp: 8342
Ion Ratio Lower Upper
62 100
64 33.2 25.6 38.4





#6
Chloroethane
Concen: 0.673 ug/l
RT: 1.564 min Scan# 163
Delta R.T. 0.006 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

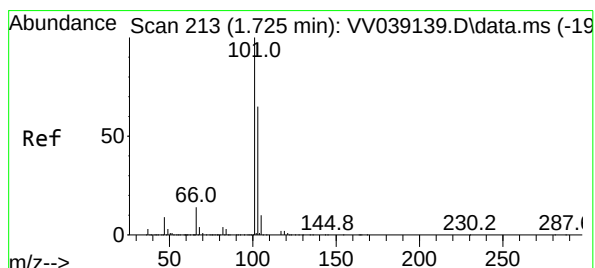
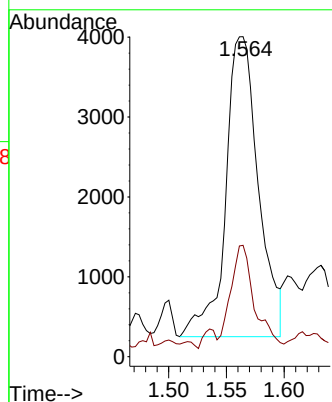
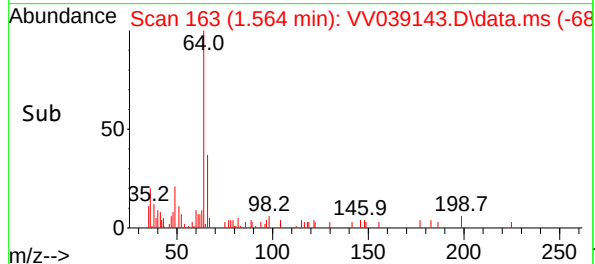
Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001



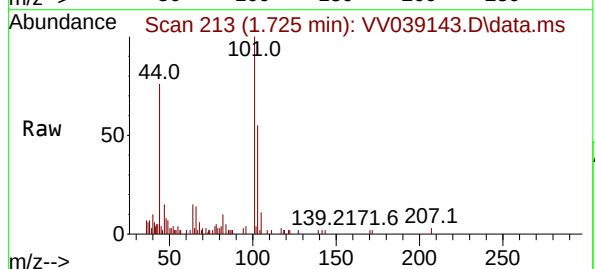
Tgt Ion: 64 Resp: 7440
Ion Ratio Lower Upper
64 100
66 32.9 24.6 36.8

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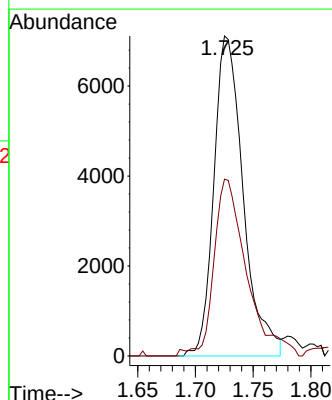
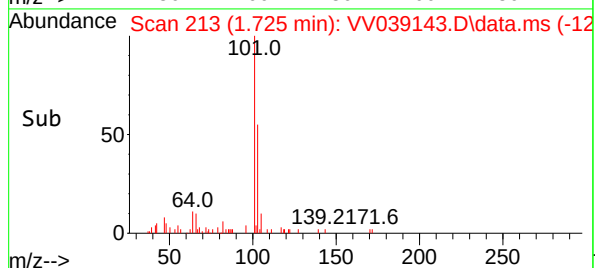
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

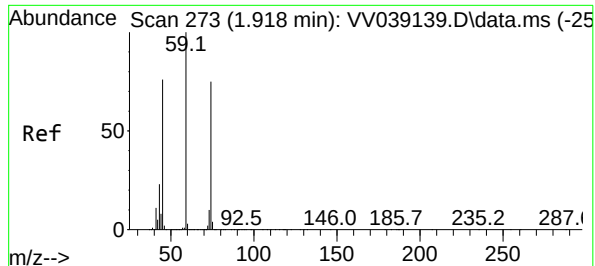


#7
Trichlorofluoromethane
Concen: 1.174 ug/l
RT: 1.725 min Scan# 213
Delta R.T. -0.000 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35



Tgt Ion:101 Resp: 12570
Ion Ratio Lower Upper
101 100
103 53.2 52.0 78.0





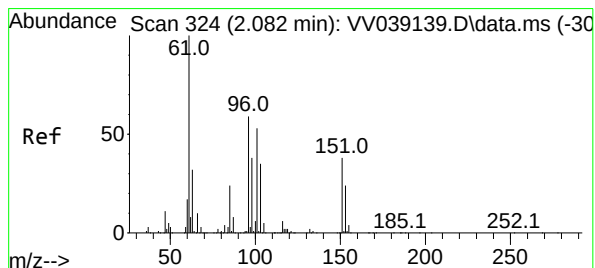
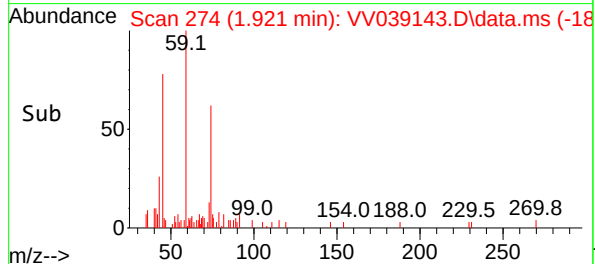
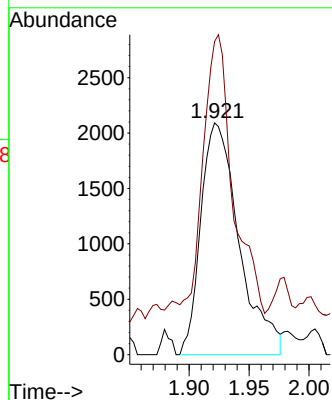
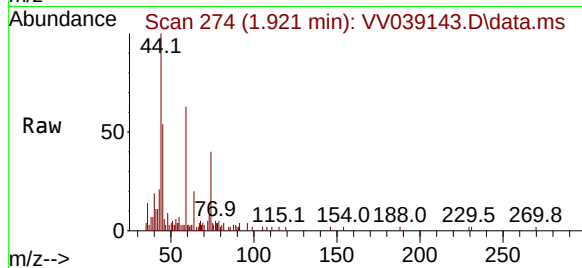
#8
Diethyl Ether
Concen: 1.170 ug/l
RT: 1.921 min Scan# 274
Delta R.T. 0.003 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

Tgt Ion: 74 Resp: 4650
Ion Ratio Lower Upper
74 100
45 107.4 49.6 148.8

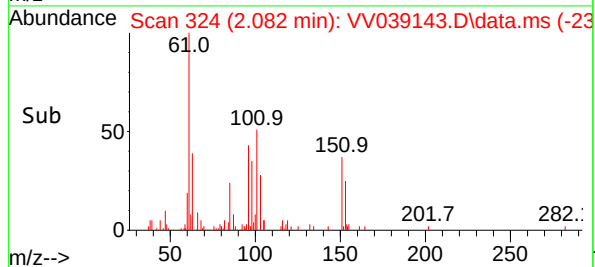
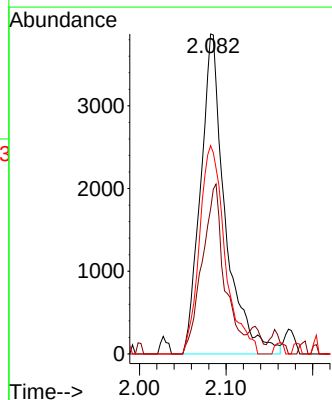
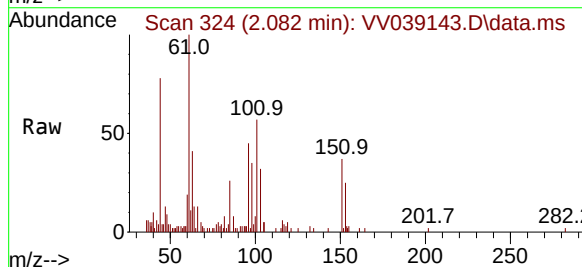
Manual Integrations
APPROVED

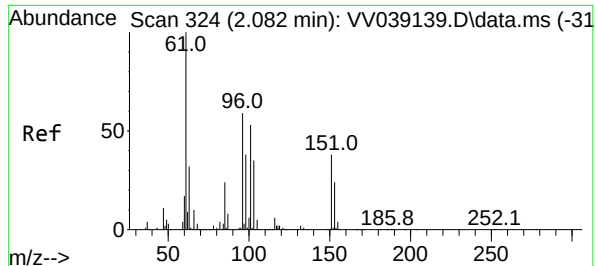
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#9
1,1,2-Trichlorotrifluoroethane
Concen: 1.198 ug/l
RT: 2.082 min Scan# 324
Delta R.T. -0.000 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:101 Resp: 7630
Ion Ratio Lower Upper
101 100
85 48.1 36.2 54.2
151 67.5 56.3 84.5





#12

1,1-Dichloroethene

Concen: 1.157 ug/l

RT: 2.085 min Scan# 31

Delta R.T. 0.003 min

Lab File: VV039143.D

Acq: 22 Sep 2025 16:35

Instrument :

MSVOA_V

ClientSampleId :

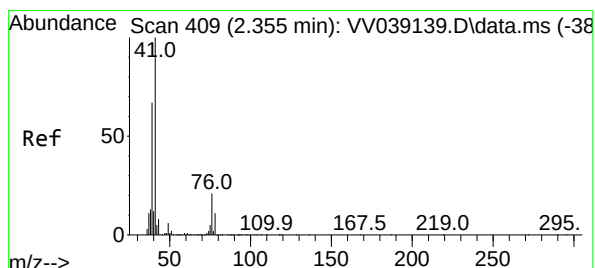
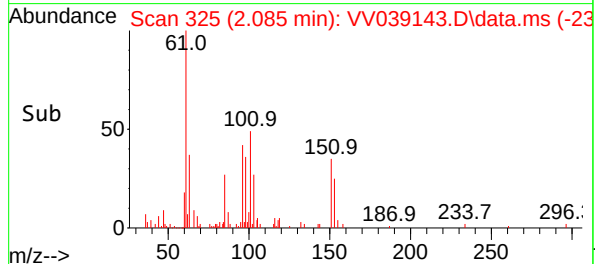
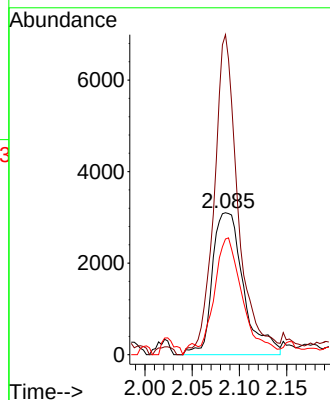
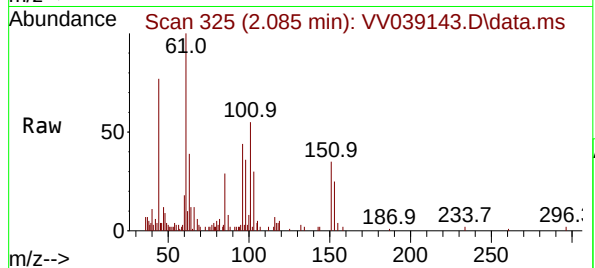
VSTDICC001

Tgt Ion:	96	Resp:	7094
Ion	Ratio	Lower	Upper
96	100		
61	225.5	136.0	204.0
98	77.5	51.0	76.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#14

Allyl chloride

Concen: 1.131 ug/l

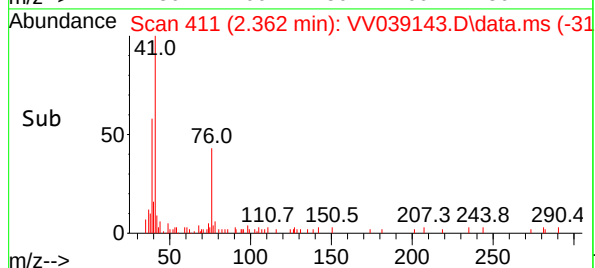
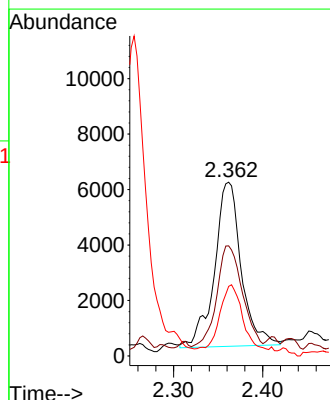
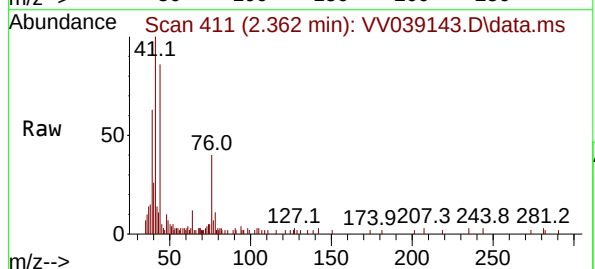
RT: 2.362 min Scan# 411

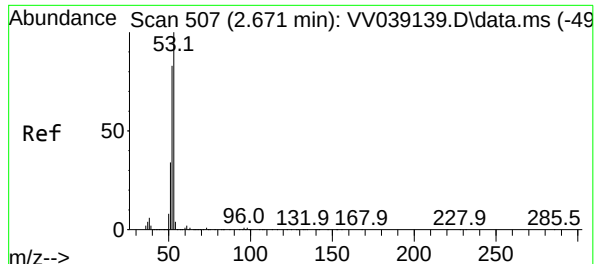
Delta R.T. 0.006 min

Lab File: VV039143.D

Acq: 22 Sep 2025 16:35

Tgt Ion:	41	Resp:	12383
Ion	Ratio	Lower	Upper
41	100		
39	60.4	51.0	76.6
76	35.0	28.2	42.4





#15

Acrylonitrile

Concen: 5.989 ug/l

RT: 2.683 min Scan# 511

Delta R.T. 0.013 min

Lab File: VV039143.D

Acq: 22 Sep 2025 16:35

Instrument :

MSVOA_V

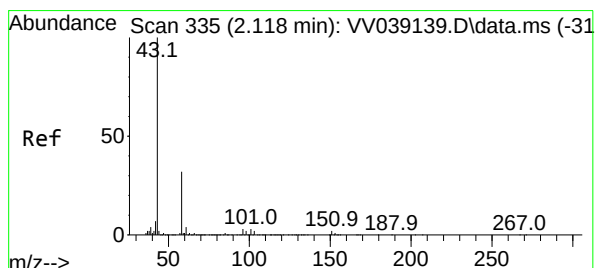
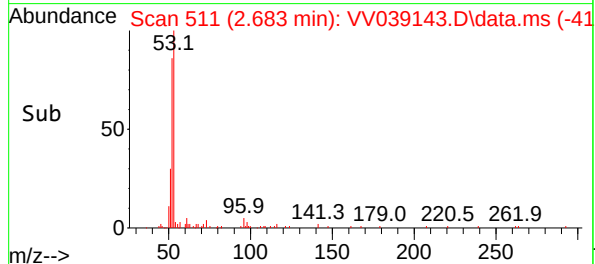
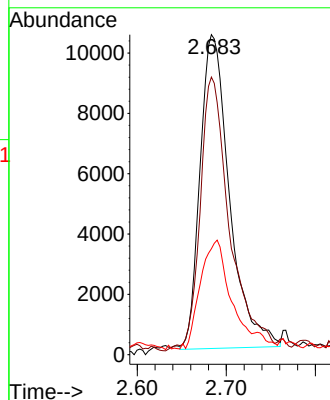
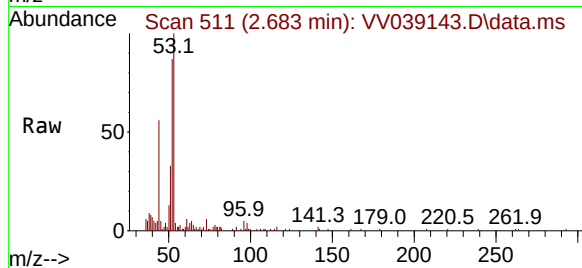
ClientSampleId :

VSTDIC001

Tgt Ion:	53	Resp:	2387
Ion	Ratio	Lower	Upper
53	100		
52	87.4	66.1	99.1
51	35.1	28.5	42.7

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#16

Acetone

Concen: 3.224 ug/l

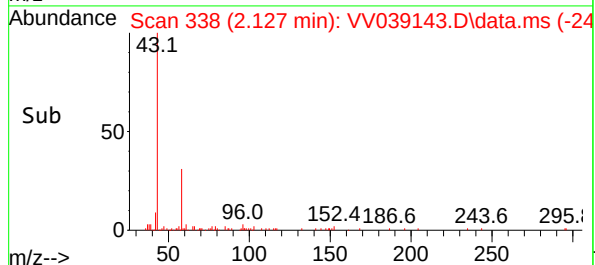
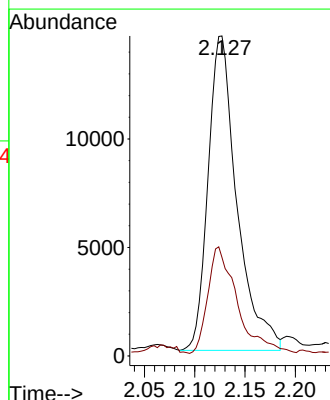
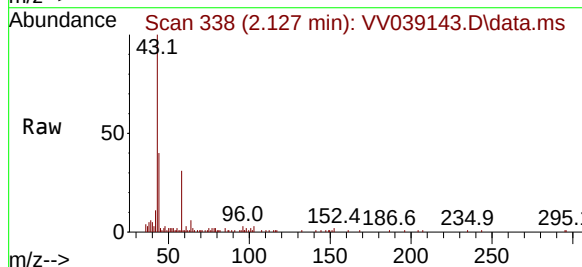
RT: 2.127 min Scan# 338

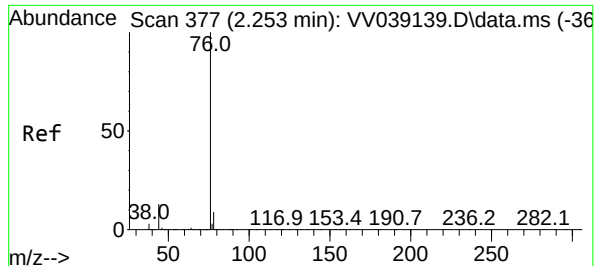
Delta R.T. 0.009 min

Lab File: VV039143.D

Acq: 22 Sep 2025 16:35

Tgt Ion:	43	Resp:	28927
Ion	Ratio	Lower	Upper
43	100		
58	30.2	25.8	38.6





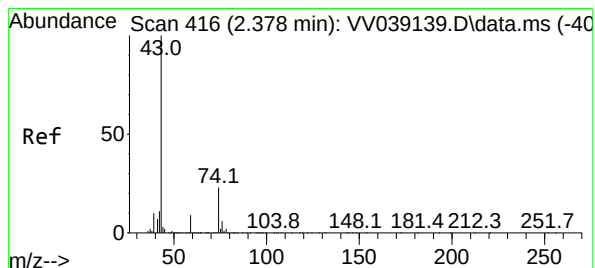
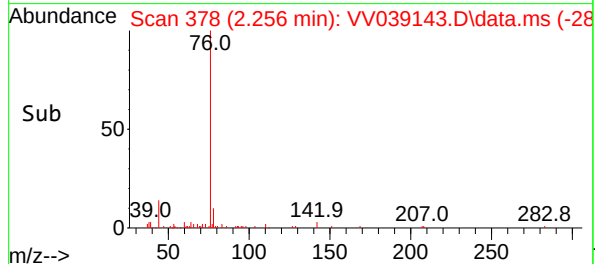
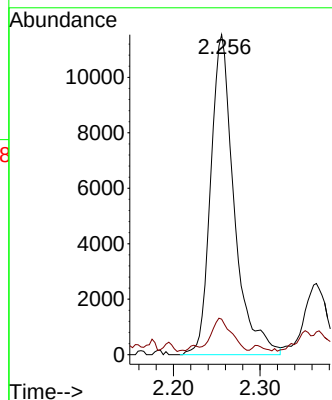
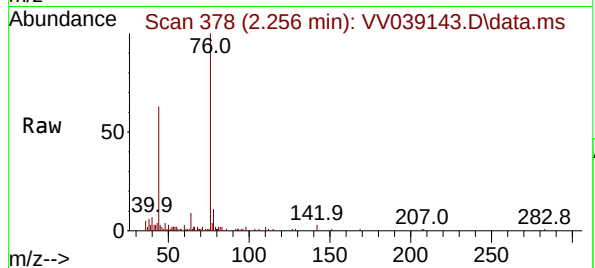
#17
Carbon Disulfide
Concen: 1.158 ug/l
RT: 2.256 min Scan# 31
Delta R.T. 0.003 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

Tgt Ion: 76 Resp: 21708
Ion Ratio Lower Upper
76 100
78 9.8 7.4 11.0

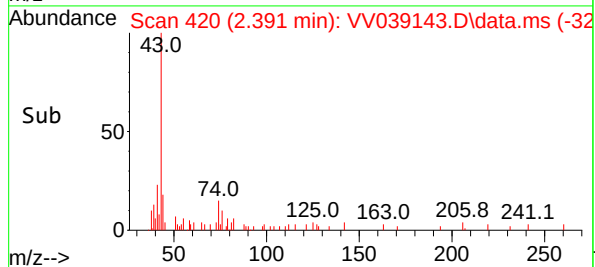
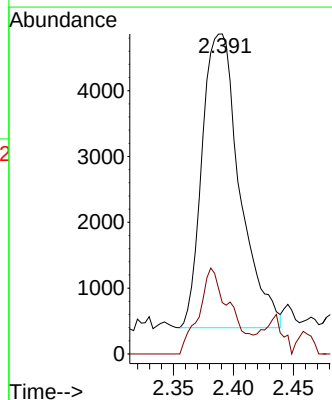
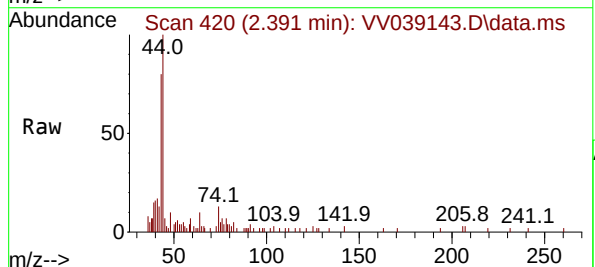
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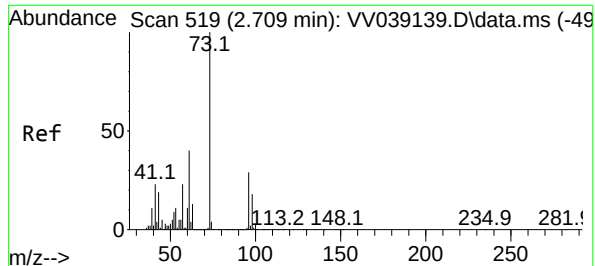
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#18
Methyl Acetate
Concen: 1.118 ug/l
RT: 2.391 min Scan# 420
Delta R.T. 0.013 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 43 Resp: 9742
Ion Ratio Lower Upper
43 100
74 24.3 18.6 27.8





#19

Methyl tert-butyl Ether

Concen: 1.078 ug/l

RT: 2.715 min Scan# 519

Delta R.T. 0.006 min

Lab File: VV039143.D

Acq: 22 Sep 2025 16:35

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC001

Tgt Ion: 73 Resp: 2106

Ion Ratio Lower Upper

73 100

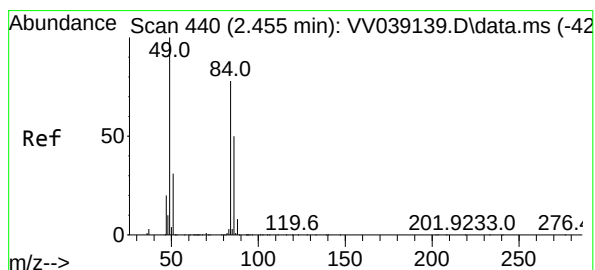
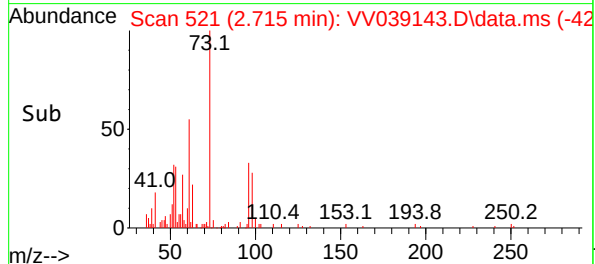
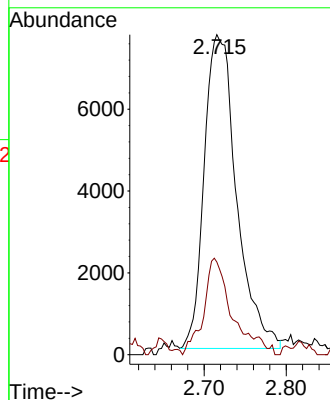
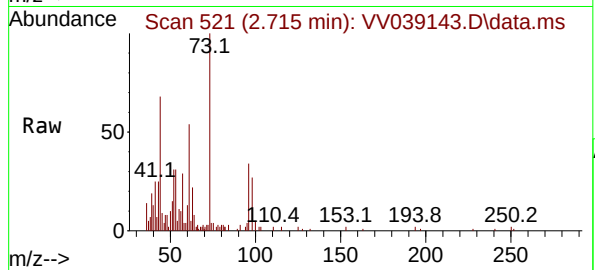
57 28.1 18.2 27.4

Manual Integrations

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Reviewed By :Mahesh Dadoda 09/26/2025

Supervised By :Semsettin Yesilyurt 09/26/2025



#20

Methylene Chloride

Concen: 0.632 ug/l

RT: 2.458 min Scan# 441

Delta R.T. 0.003 min

Lab File: VV039143.D

Acq: 22 Sep 2025 16:35

Tgt Ion: 84 Resp: 16152

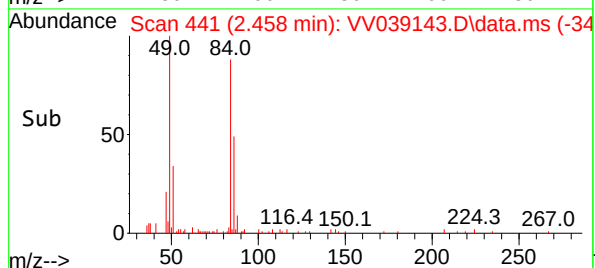
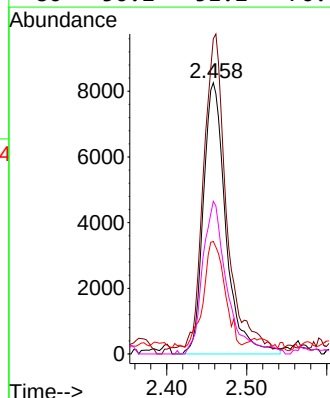
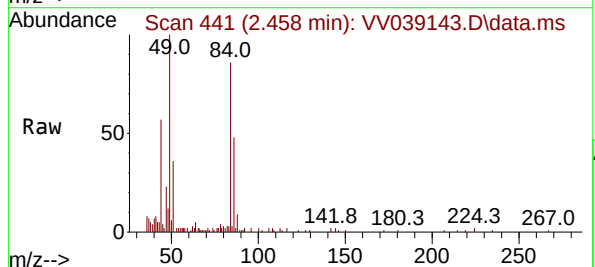
Ion Ratio Lower Upper

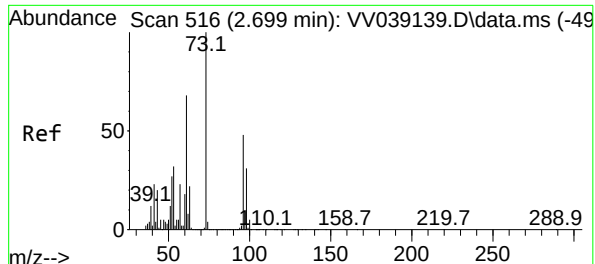
84 100

49 114.5 102.8 154.2

51 38.2 31.9 47.9

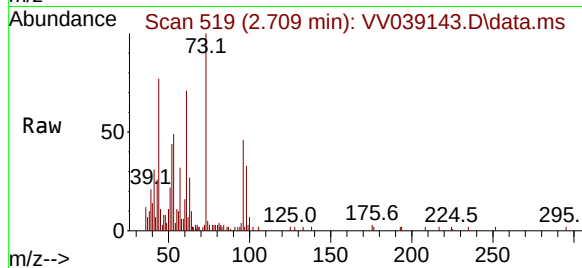
86 56.2 51.2 76.8





#21
trans-1,2-Dichloroethene
Concen: 1.195 ug/l
RT: 2.709 min Scan# 516
Delta R.T. 0.010 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

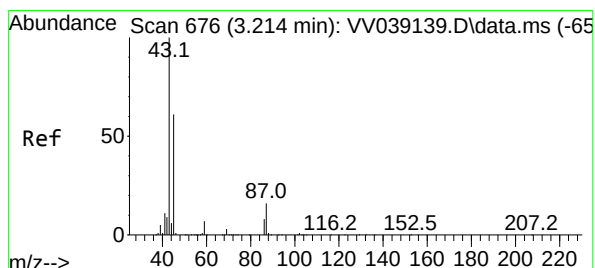
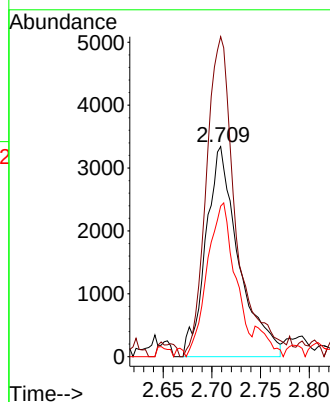
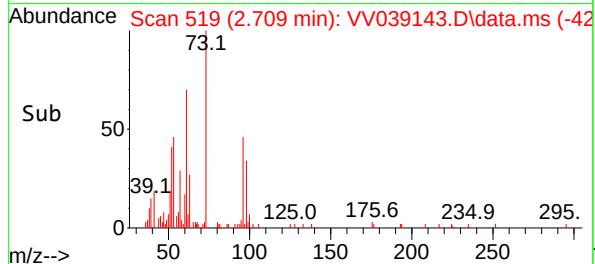
Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001



Tgt Ion: 96 Resp: 779
Ion Ratio Lower Upper
96 100
61 152.3 112.8 169.2
98 68.3 51.1 76.7

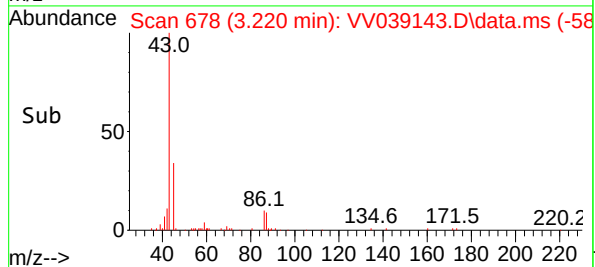
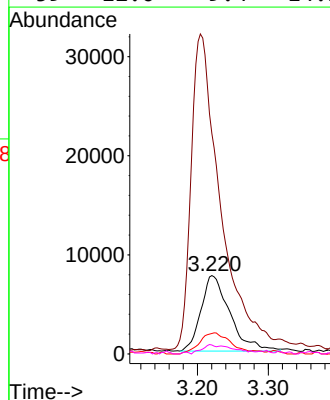
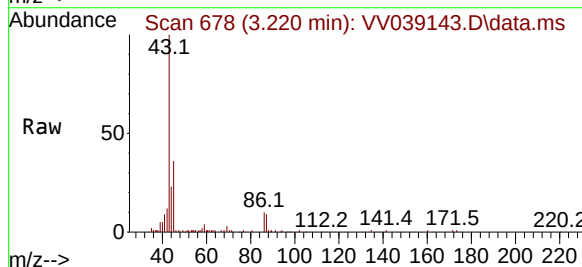
Manual Integrations
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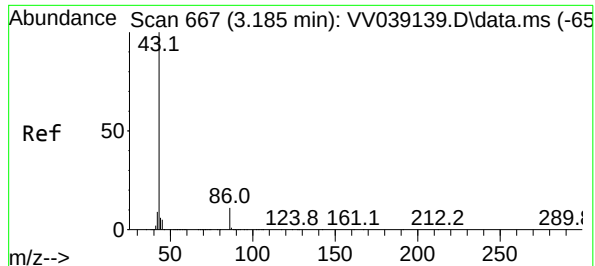
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#22
Diisopropyl ether
Concen: 1.032 ug/l
RT: 3.220 min Scan# 678
Delta R.T. 0.006 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 45 Resp: 21620
Ion Ratio Lower Upper
45 100
43 273.0 130.9 196.3#
87 27.1 21.1 31.7
59 12.0 9.4 14.2





#23

Vinyl Acetate

Concen: 4.977 ug/l

RT: 3.204 min Scan# 61

Delta R.T. 0.019 min

Lab File: VV039143.D

Acq: 22 Sep 2025 16:35

Instrument :

MSVOA_V

ClientSampleId :

VSTDICC001

Tgt Ion: 43 Resp: 91192

Ion Ratio Lower Upper

43 100

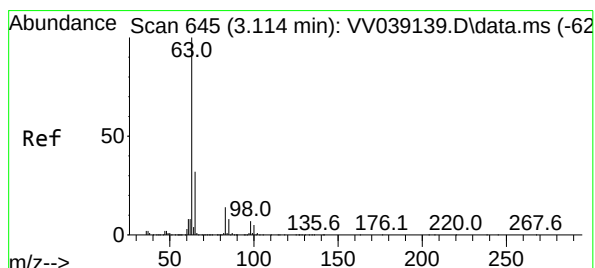
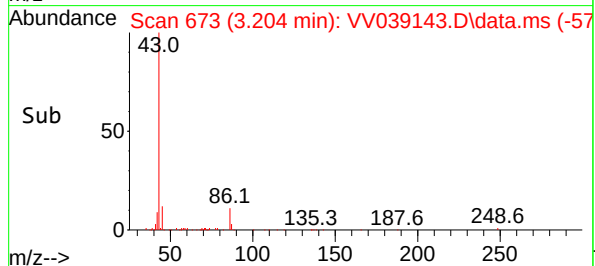
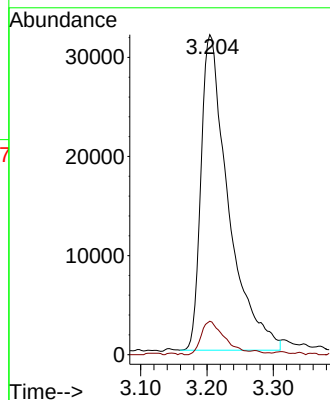
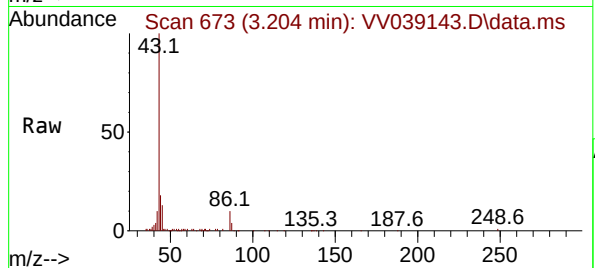
86 10.3 8.4 12.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025

Supervised By :Semsettin Yesilyurt 09/26/2025



#24

1,1-Dichloroethane

Concen: 1.233 ug/l

RT: 3.121 min Scan# 647

Delta R.T. 0.006 min

Lab File: VV039143.D

Acq: 22 Sep 2025 16:35

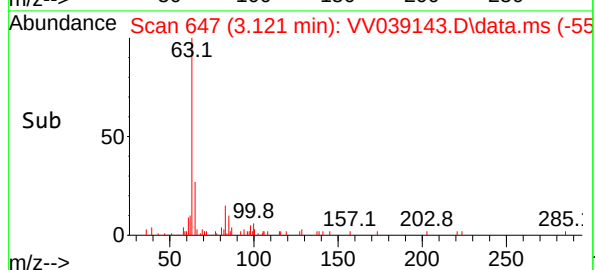
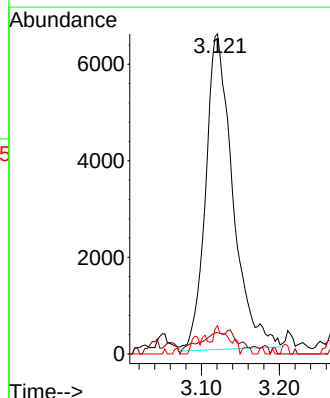
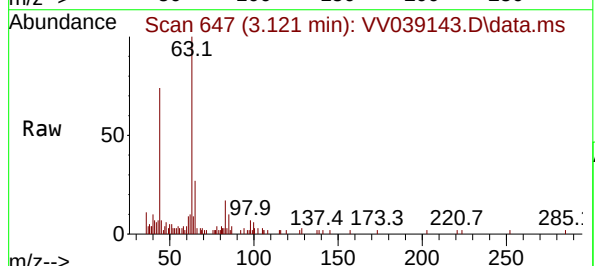
Tgt Ion: 63 Resp: 15790

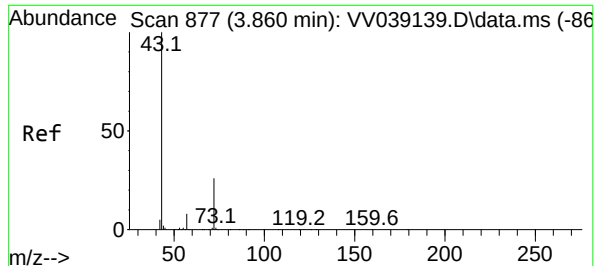
Ion Ratio Lower Upper

63 100

98 6.8 3.4 10.2

100 9.0 2.2 6.6#





#25

2-Butanone

Concen: 4.862 ug/l m

RT: 3.921 min Scan# 896

Delta R.T. 0.061 min

Lab File: VV039143.D

Acq: 22 Sep 2025 16:35

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC001

Tgt Ion: 43 Resp: 2251

Ion Ratio Lower Upper

43 100

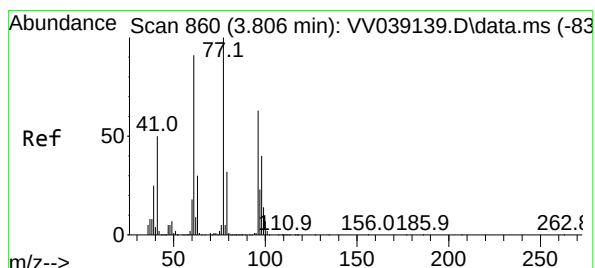
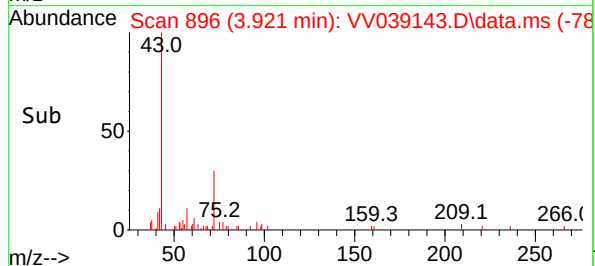
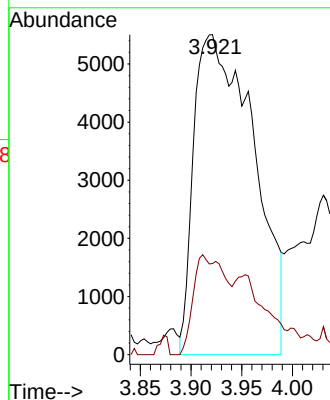
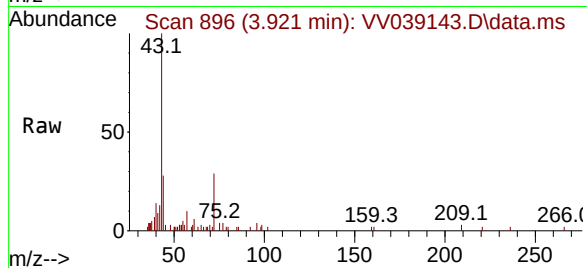
72 28.5 21.0 31.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025

Supervised By :Semsettin Yesilyurt 09/26/2025



#26

2,2-Dichloropropane

Concen: 1.369 ug/l m

RT: 3.815 min Scan# 863

Delta R.T. 0.010 min

Lab File: VV039143.D

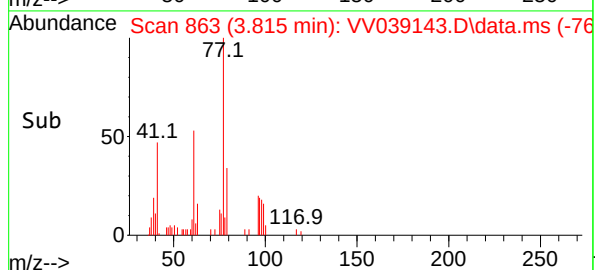
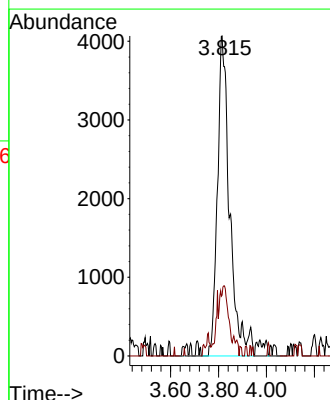
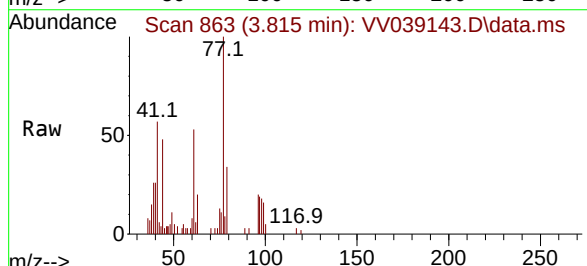
Acq: 22 Sep 2025 16:35

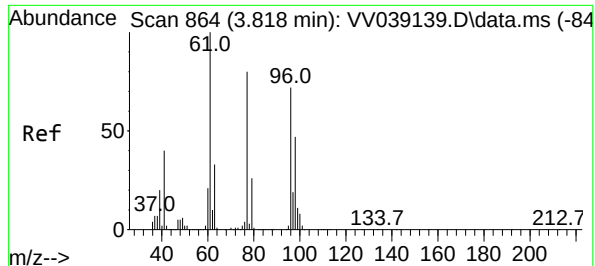
Tgt Ion: 77 Resp: 15492

Ion Ratio Lower Upper

77 100

97 0.3 11.6 34.7#





#27

cis-1,2-Dichloroethene

Concen: 1.131 ug/l

RT: 3.834 min Scan# 80

Delta R.T. 0.016 min

Lab File: VV039143.D

Acq: 22 Sep 2025 16:35

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC001

Tgt Ion: 96 Resp: 813

Ion Ratio Lower Upper

96 100

61 138.6 0.0 286.4

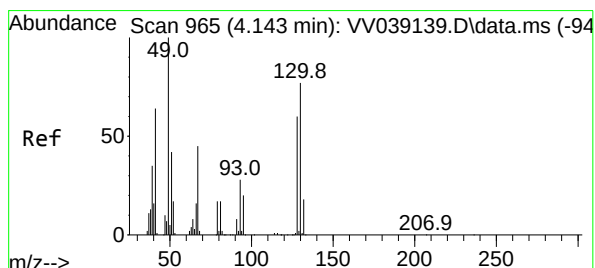
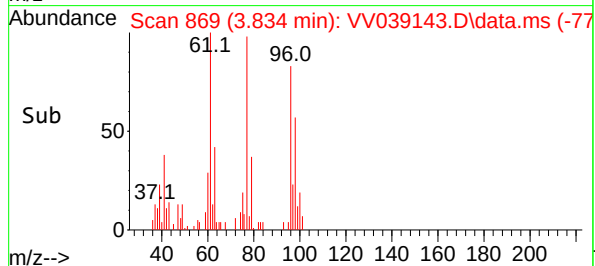
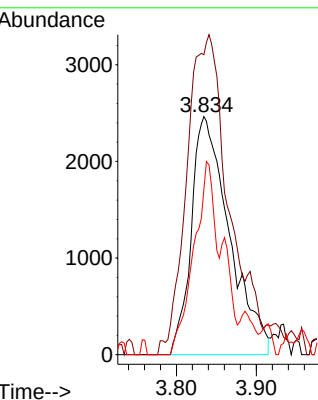
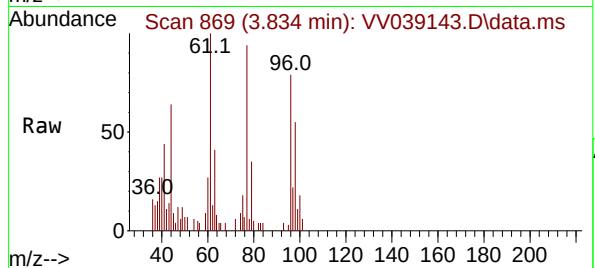
98 46.3 0.0 126.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025

Supervised By :Semsettin Yesilyurt 09/26/2025



#28

Bromochloromethane

Concen: 1.068 ug/l

RT: 4.162 min Scan# 971

Delta R.T. 0.019 min

Lab File: VV039143.D

Acq: 22 Sep 2025 16:35

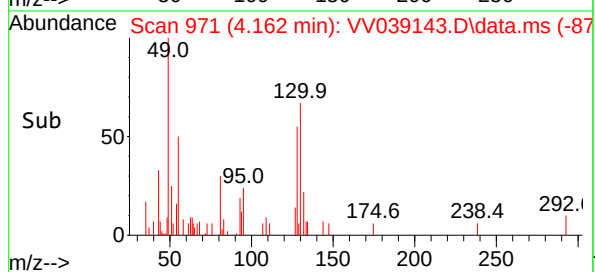
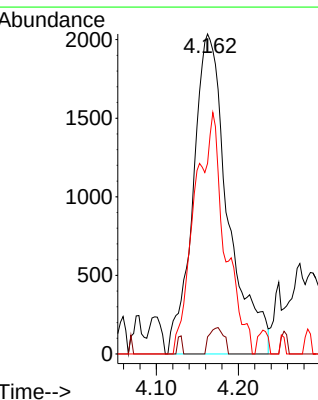
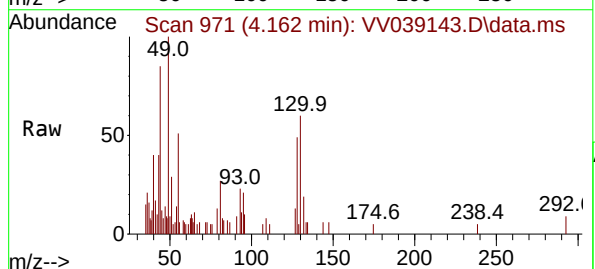
Tgt Ion: 49 Resp: 6039

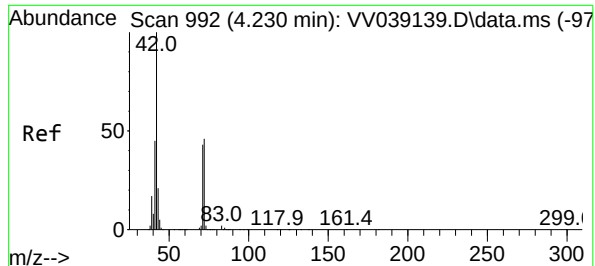
Ion Ratio Lower Upper

49 100

129 3.5 0.0 4.2

130 34.4 60.2 90.2#





#29

Tetrahydrofuran

Concen: 4.619 ug/l

RT: 4.262 min Scan# 1002

Delta R.T. 0.032 min

Lab File: VV039143.D

Acq: 22 Sep 2025 16:35

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC001

Tgt Ion: 42 Resp: 1362

Ion Ratio Lower Upper

42 100

72 14.9 36.3 54.5

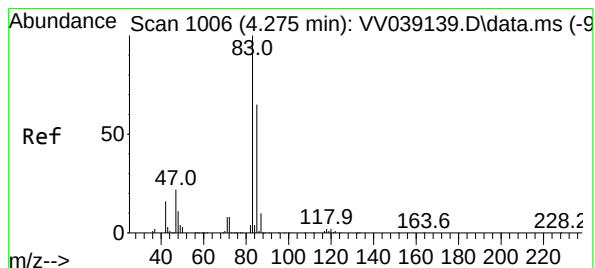
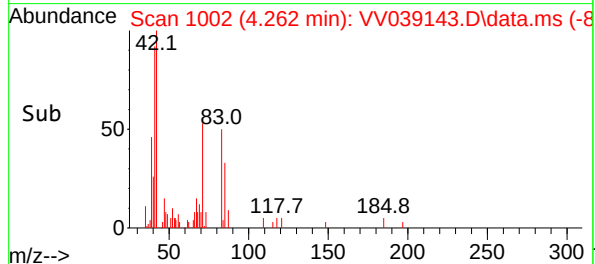
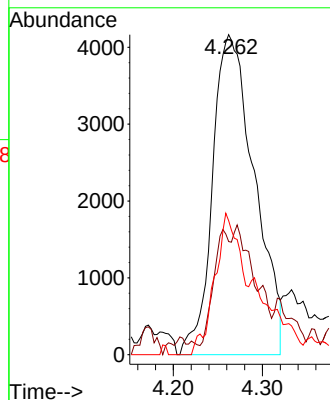
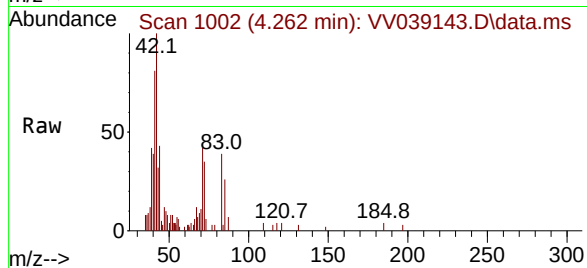
71 28.2 34.3 51.5

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025

Supervised By :Semsettin Yesilyurt 09/26/2025



#30

Chloroform

Concen: 1.143 ug/l

RT: 4.288 min Scan# 1010

Delta R.T. 0.013 min

Lab File: VV039143.D

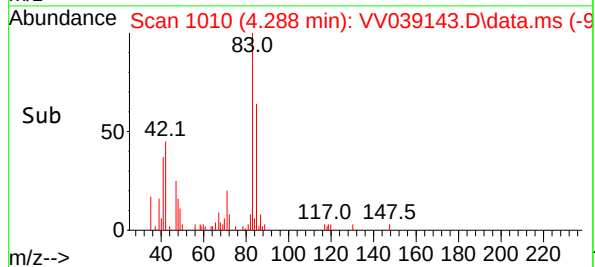
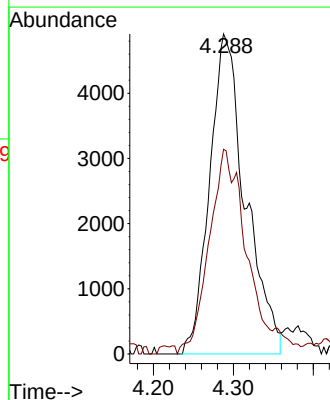
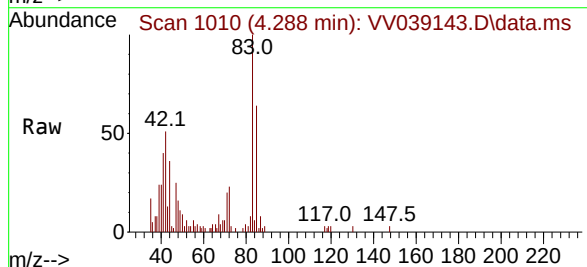
Acq: 22 Sep 2025 16:35

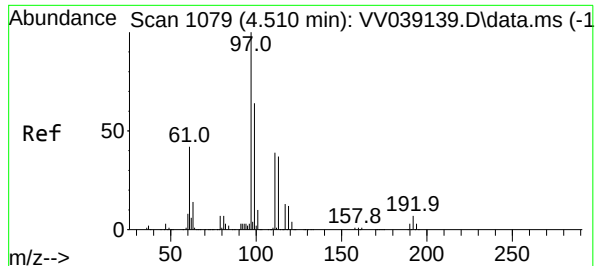
Tgt Ion: 83 Resp: 15288

Ion Ratio Lower Upper

83 100

85 61.9 52.1 78.1





#32

1,1,1-Trichloroethane

Concen: 1.116 ug/l

RT: 4.519 min Scan# 1079

Delta R.T. 0.010 min

Lab File: VV039143.D

Acq: 22 Sep 2025 16:35

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC001

Tgt Ion: 97 Resp: 12920

Ion Ratio Lower Upper

97 100

99 66.0 49.6 74.4

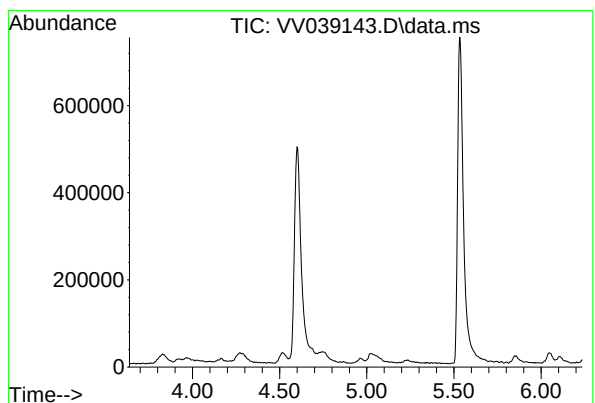
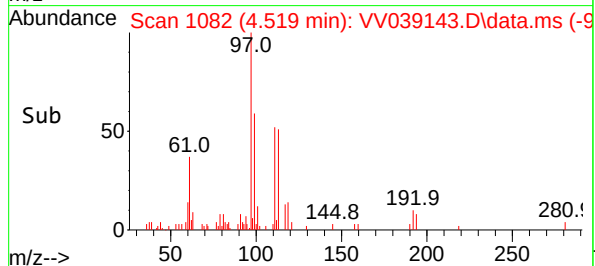
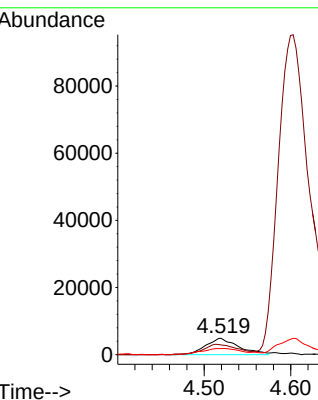
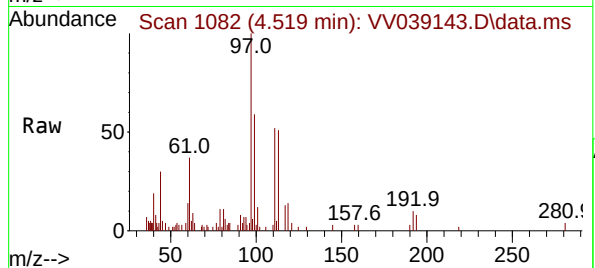
61 37.6 34.5 51.7

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025

Supervised By :Semsettin Yesilyurt 09/26/2025



#33

1,2-Dichloroethane-d4

Concen: 0.000 ug/l

Expected RT: 4.94 min

Lab File: VV039143.D

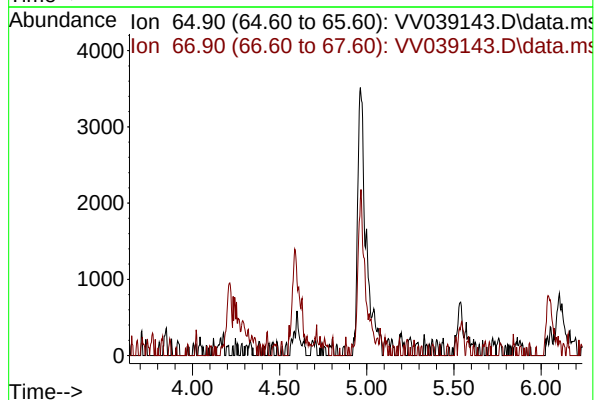
Acq: 22 Sep 2025 16:35

Tgt Ion: 65

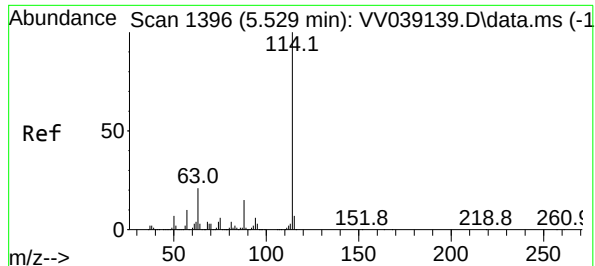
Sig Exp Ratio

65 100

67 53.5



Ion 66.90 (66.60 to 67.60): VV039143.D\data.ms



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.535 min Scan# 11

Delta R.T. 0.006 min

Lab File: VV039143.D

Acq: 22 Sep 2025 16:35

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC001

Tgt Ion:114 Resp: 73585

Ion Ratio Lower Upper

114 100

63 21.0 0.0 42.6

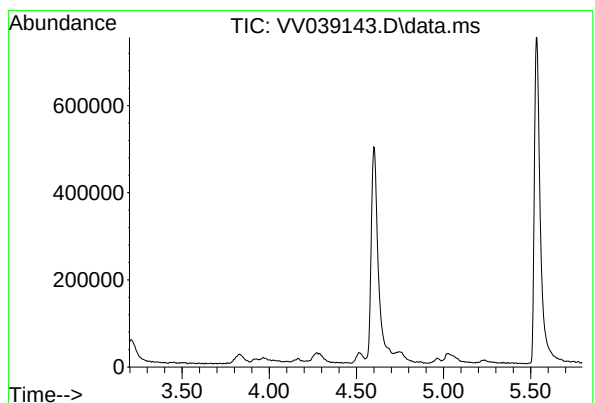
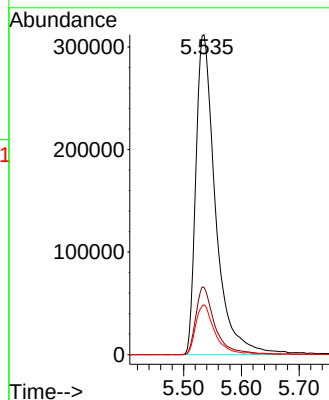
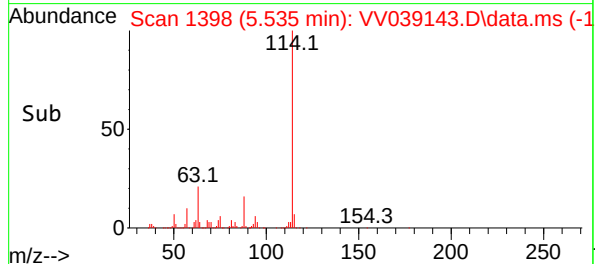
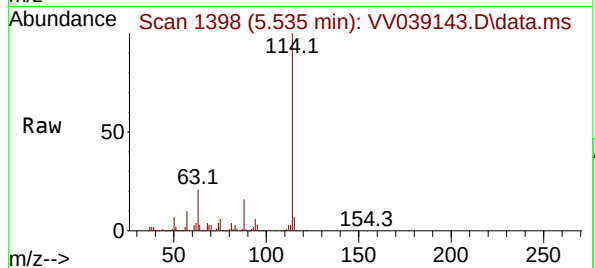
88 15.6 0.0 30.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025

Supervised By :Semsettin Yesilyurt 09/26/2025



#35

Dibromofluoromethane

Concen: 0.000 ug/l

Expected RT: 4.50 min

Lab File: VV039143.D

Acq: 22 Sep 2025 16:35

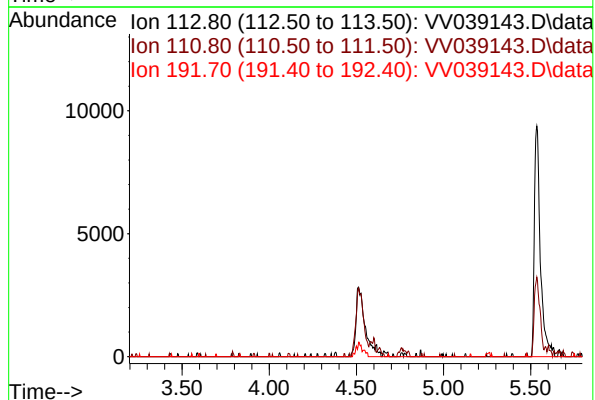
Tgt Ion: 113

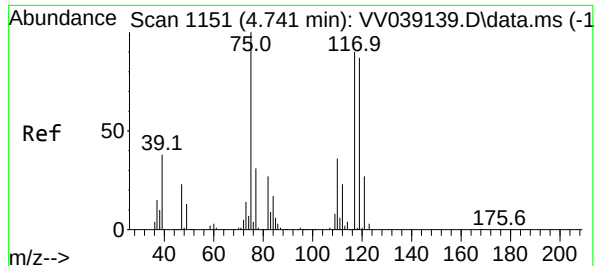
Sig Exp Ratio

113 100

111 103.0

192 17.3





#36

1,1-Dichloropropene

Concen: 1.063 ug/l m

RT: 4.764 min Scan# 1151

Delta R.T. 0.023 min

Lab File: VV039143.D

Acq: 22 Sep 2025 16:35

Instrument :

MSVOA_V

ClientSampleId :

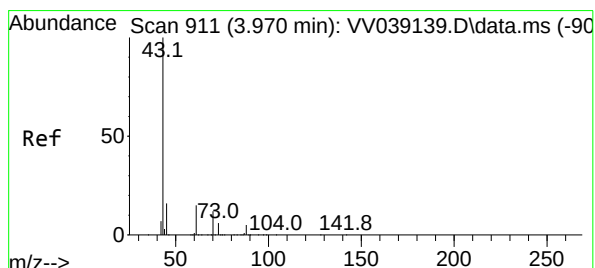
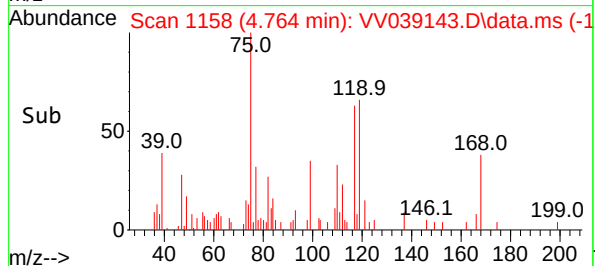
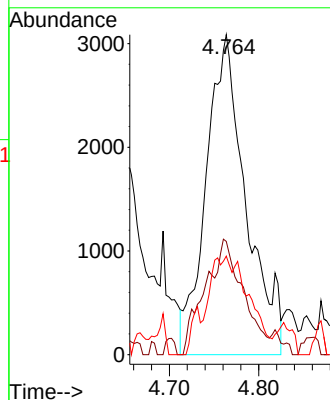
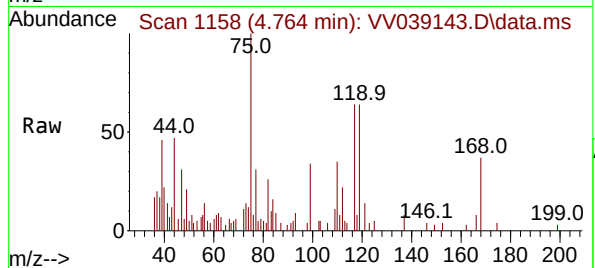
VSTDICC001

Tgt Ion:	75	Resp:	957
Ion Ratio	Lower	Upper	
75	100		
110	34.7	18.1	54.1
77	5.4	24.8	37.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#37

Ethyl Acetate

Concen: 1.098 ug/l m

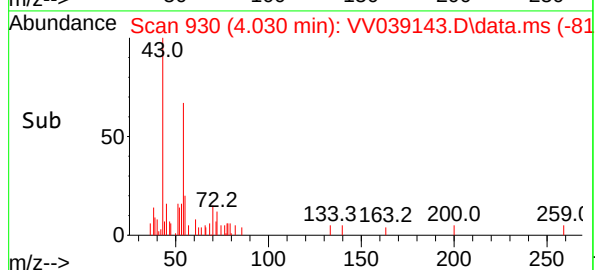
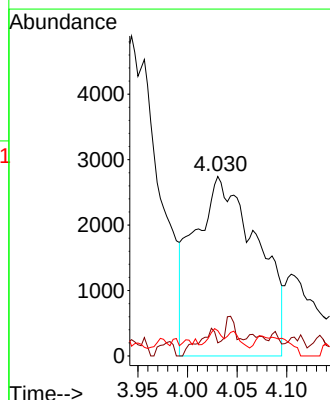
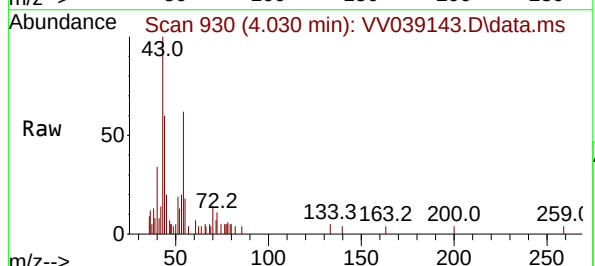
RT: 4.030 min Scan# 930

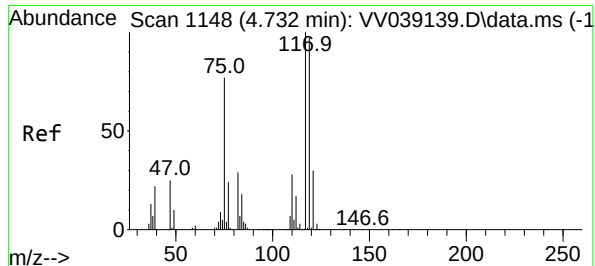
Delta R.T. 0.060 min

Lab File: VV039143.D

Acq: 22 Sep 2025 16:35

Tgt Ion:	43	Resp:	12136
Ion Ratio	Lower	Upper	
43	100		
61	4.2	10.3	15.5#
70	1.6	8.0	12.0#





#38

Carbon Tetrachloride

Concen: 1.207 ug/l m

RT: 4.735 min Scan# 1148

Delta R.T. 0.003 min

Lab File: VV039143.D

Acq: 22 Sep 2025 16:35

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC001

Tgt Ion:117 Resp: 13098

Ion Ratio Lower Upper

117 100

119 84.6 77.2 115.8

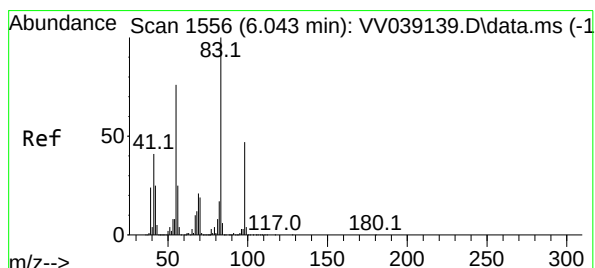
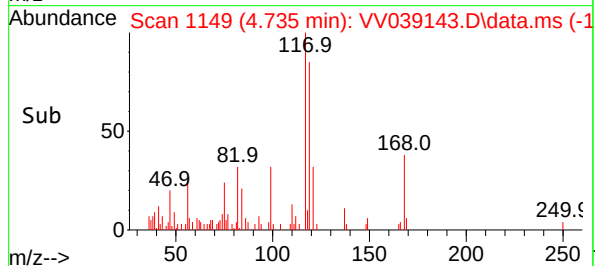
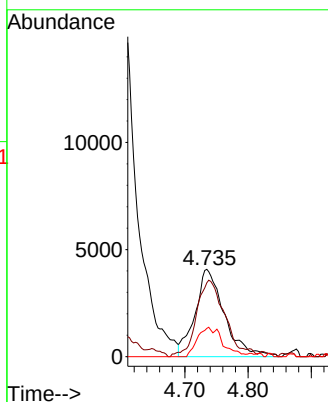
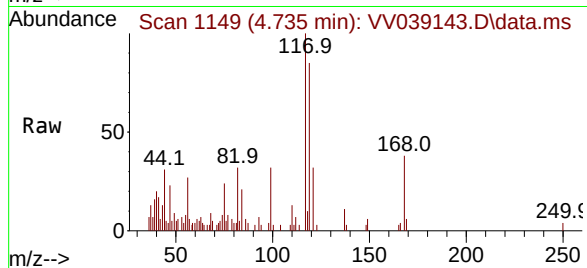
121 32.4 24.2 36.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025

Supervised By :Semsettin Yesilyurt 09/26/2025



#39

Methylcyclohexane

Concen: 0.848 ug/l

RT: 6.050 min Scan# 1558

Delta R.T. 0.007 min

Lab File: VV039143.D

Acq: 22 Sep 2025 16:35

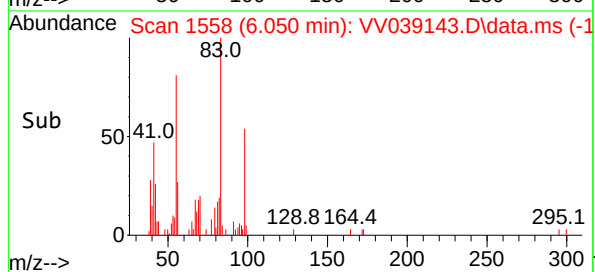
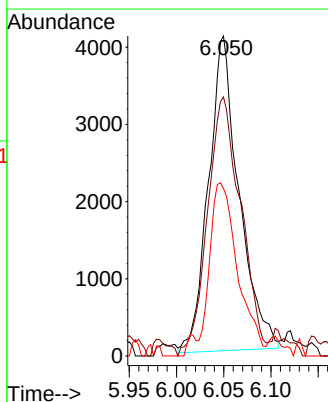
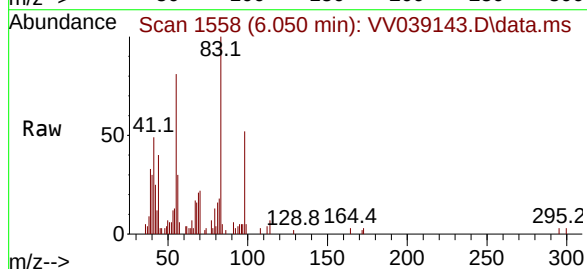
Tgt Ion: 83 Resp: 9159

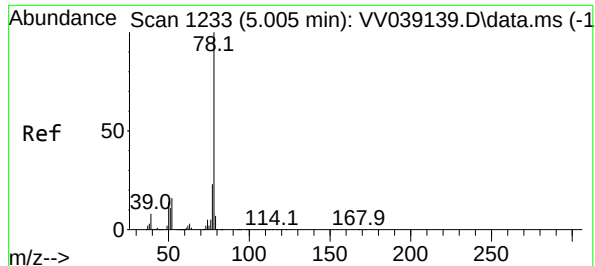
Ion Ratio Lower Upper

83 100

55 83.0 60.5 90.7

98 53.7 37.8 56.6





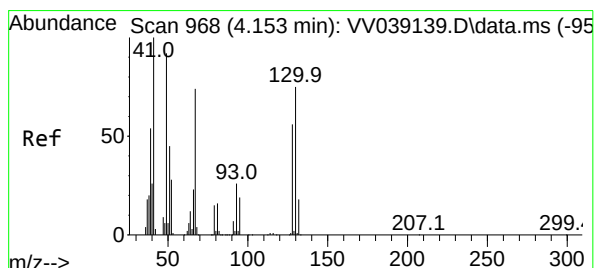
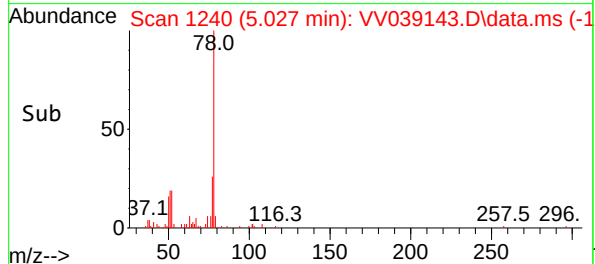
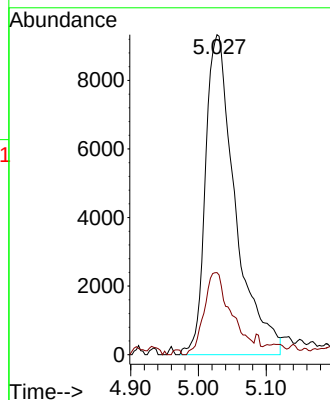
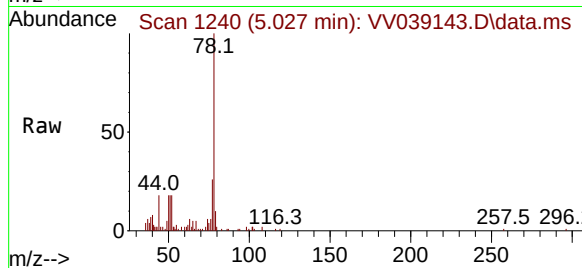
#40
Benzene
Concen: 0.978 ug/l
RT: 5.027 min Scan# 11
Delta R.T. 0.022 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

Tgt Ion: 78 Resp: 2848
Ion Ratio Lower Upper
78 100
77 24.3 18.7 28.1

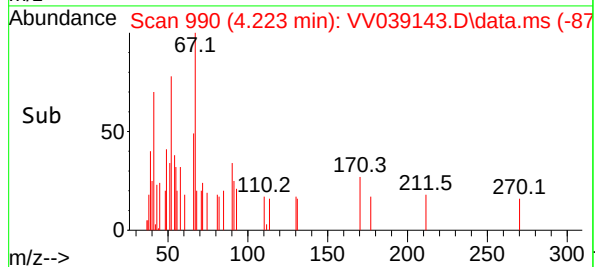
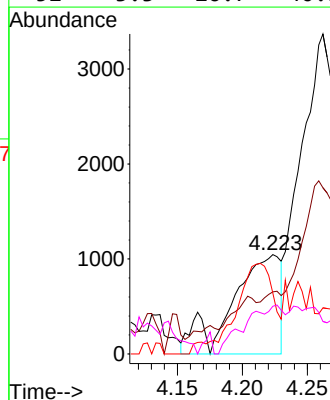
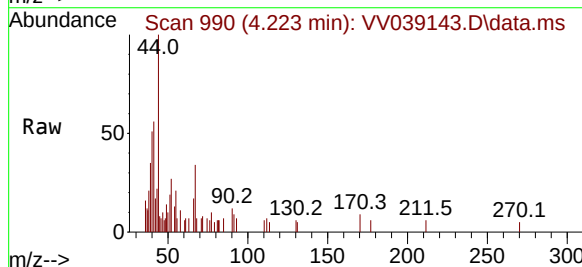
Manual Integrations
APPROVED

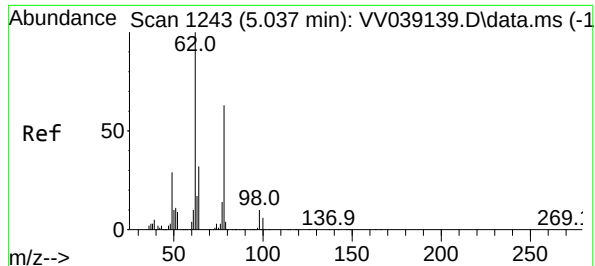
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#41
Methacrylonitrile
Concen: 2.427 ug/l m
RT: 4.223 min Scan# 990
Delta R.T. 0.070 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 41 Resp: 2717
Ion Ratio Lower Upper
41 100
39 5.4 42.2 63.2#
67 0.0 67.9 101.9#
52 3.3 26.7 40.1#





#42

1,2-Dichloroethane

Concen: 1.067 ug/l

RT: 5.059 min Scan# 11

Delta R.T. 0.022 min

Lab File: VV039143.D

Acq: 22 Sep 2025 16:35

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC001

Tgt Ion: 62 Resp: 1089

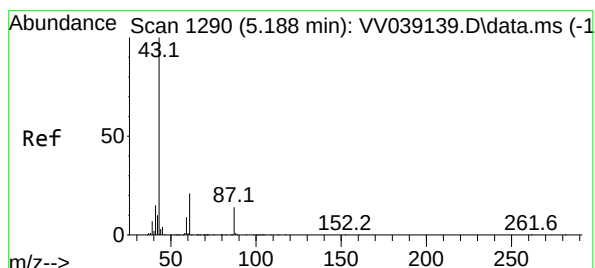
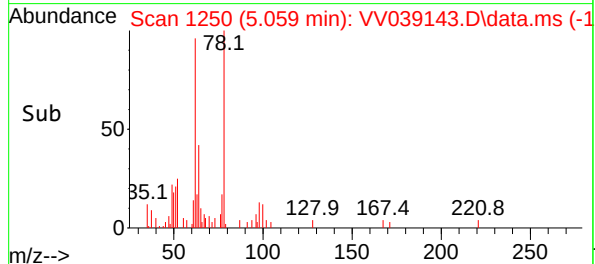
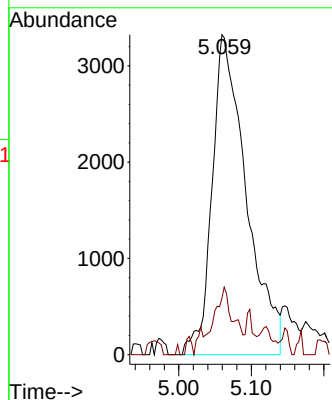
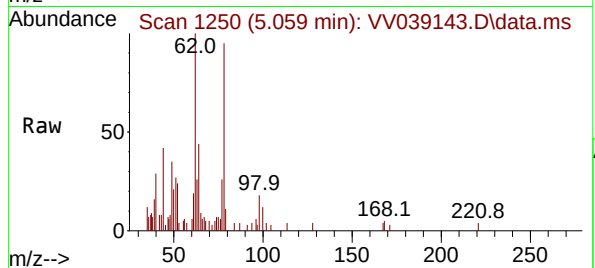
Ion Ratio Lower Upper

62 100

98 11.5 0.0 19.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

#43

Isopropyl Acetate

Concen: 0.840 ug/l m

RT: 5.236 min Scan# 1305

Delta R.T. 0.048 min

Lab File: VV039143.D

Acq: 22 Sep 2025 16:35

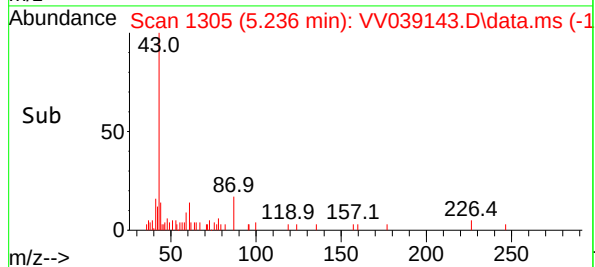
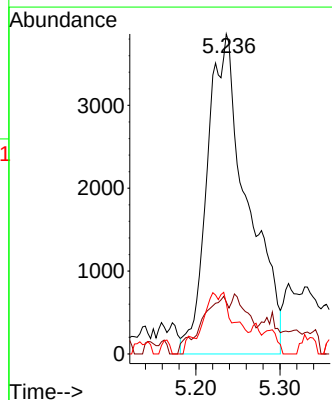
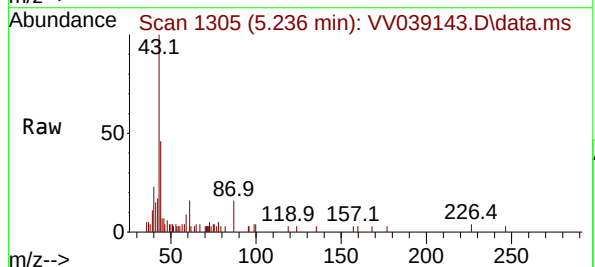
Tgt Ion: 43 Resp: 12786

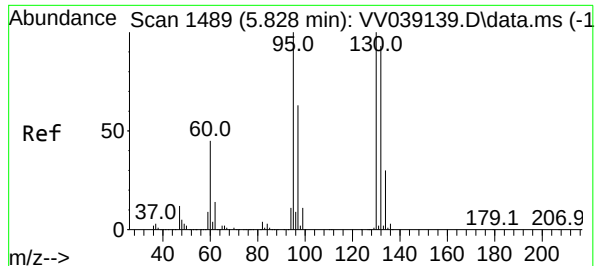
Ion Ratio Lower Upper

43 100

61 7.1 15.9 23.9#

87 4.4 11.0 16.6#





#44

Trichloroethene

Concen: 0.953 ug/l

RT: 5.850 min Scan# 1489

Delta R.T. 0.022 min

Lab File: VV039143.D

Acq: 22 Sep 2025 16:35

Instrument :

MSVOA_V

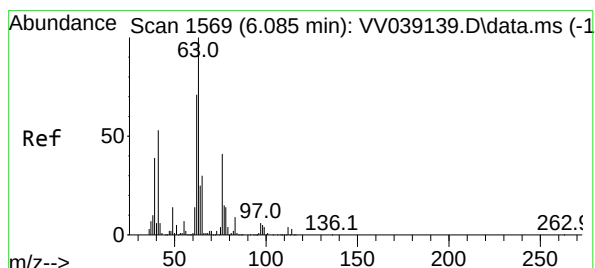
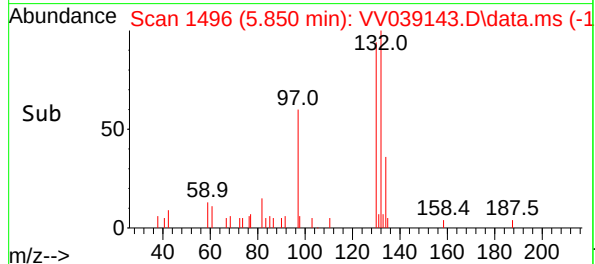
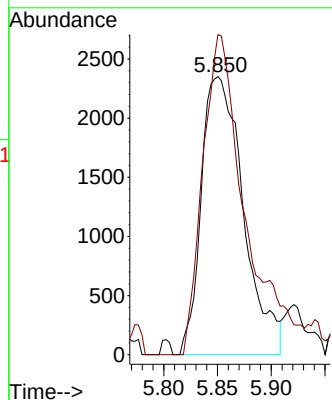
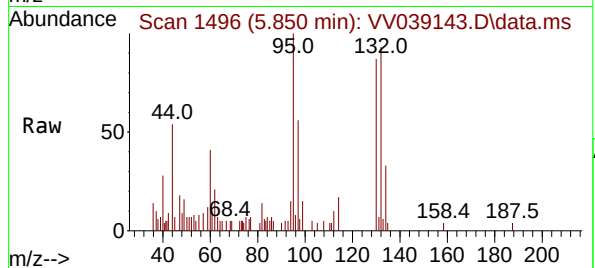
ClientSampleId :

VSTDIC001

Tgt Ion:130 Resp: 6408
Ion Ratio Lower Upper
130 100
95 115.1 0.0 199.2

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#45

1,2-Dichloropropane

Concen: 0.945 ug/l

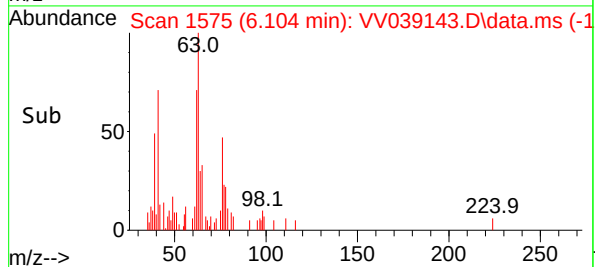
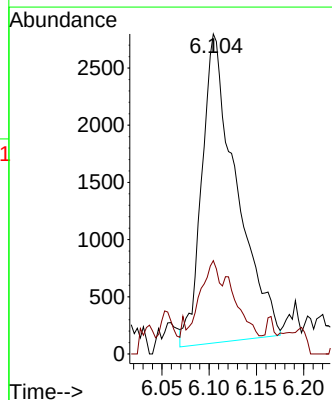
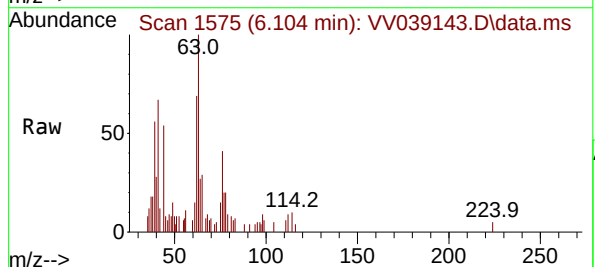
RT: 6.104 min Scan# 1575

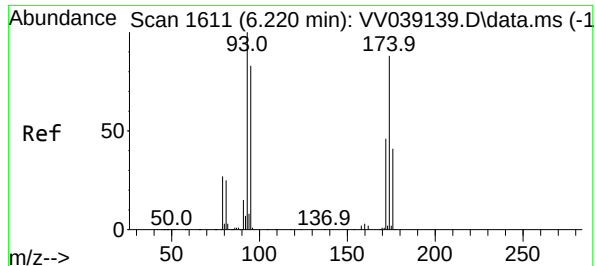
Delta R.T. 0.019 min

Lab File: VV039143.D

Acq: 22 Sep 2025 16:35

Tgt Ion: 63 Resp: 6838
Ion Ratio Lower Upper
63 100
65 25.8 23.7 35.5





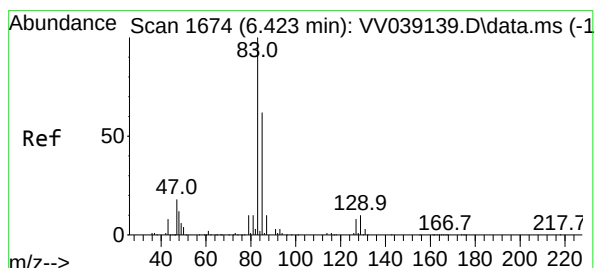
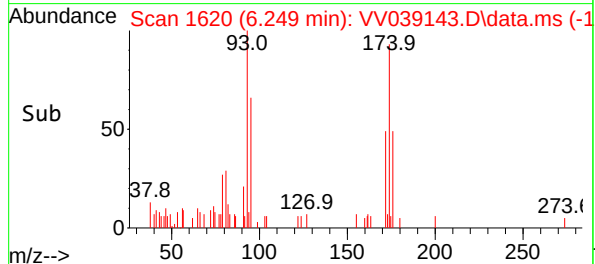
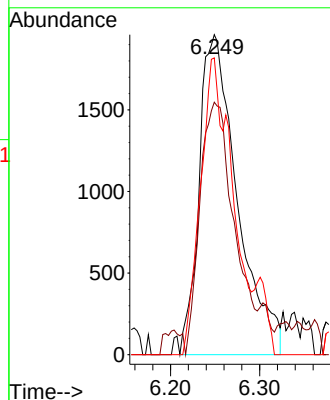
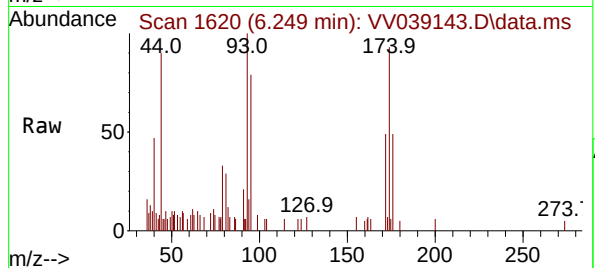
#46
Dibromomethane
Concen: 1.053 ug/l
RT: 6.249 min Scan# 1620
Delta R.T. 0.029 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Instrument :
MSVOA_V
ClientSampleId :
VSTDIC001

Tgt Ion: 93 Resp: 583
Ion Ratio Lower Upper
93 100
95 70.8 65.5 98.3
174 77.3 69.0 103.4

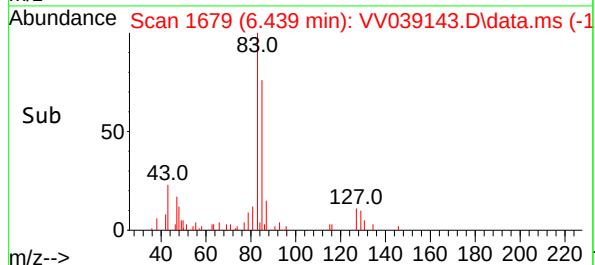
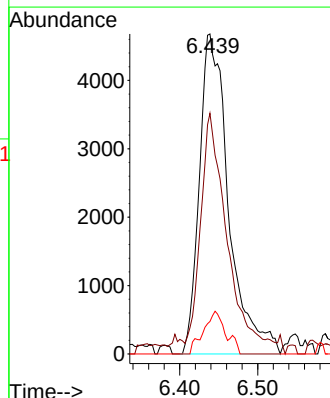
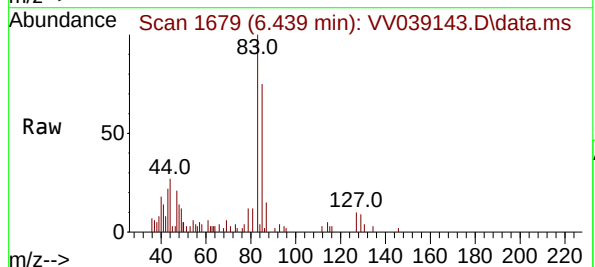
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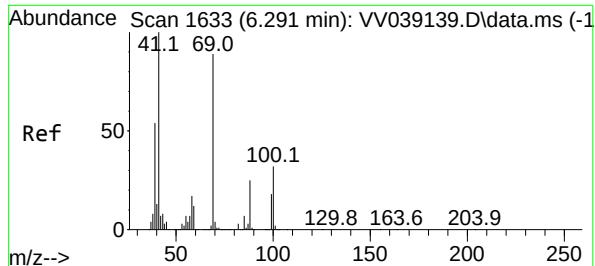
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#47
Bromodichloromethane
Concen: 1.066 ug/l
RT: 6.439 min Scan# 1679
Delta R.T. 0.016 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 83 Resp: 12206
Ion Ratio Lower Upper
83 100
85 70.7 49.7 74.5
127 10.2 6.6 9.8#





#48

Methyl methacrylate

Concen: 1.038 ug/l m

RT: 6.371 min Scan# 1658

Delta R.T. 0.080 min

Lab File: VV039143.D

Acq: 22 Sep 2025 16:35

Instrument :

MSVOA_V

ClientSampleId :

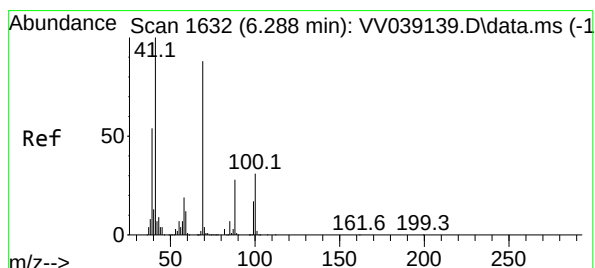
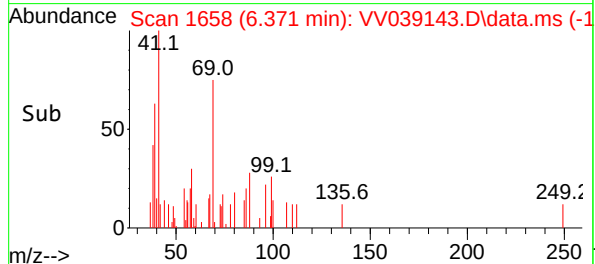
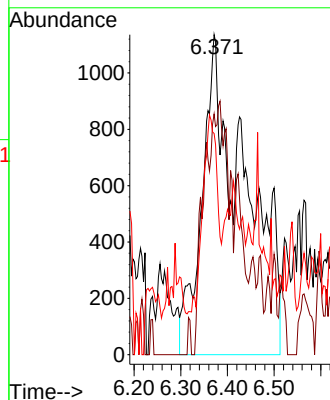
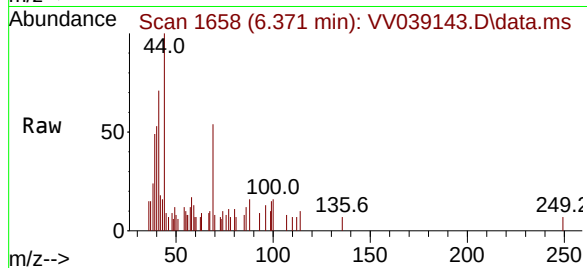
VSTDIC001

Tgt Ion:	41	Resp:	723
Ion	Ratio	Lower	Upper
41	100		
69	0.0	72.4	108.6
39	0.0	42.5	63.7

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#49

1,4-Dioxane

Concen: 24.855 ug/l m

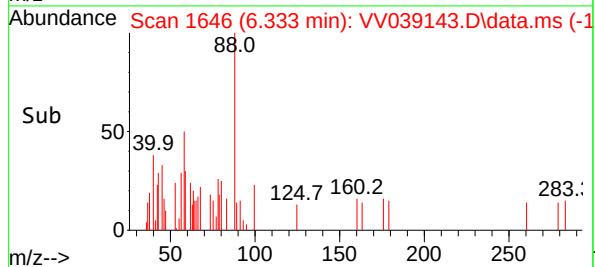
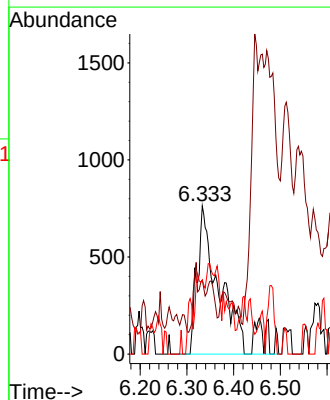
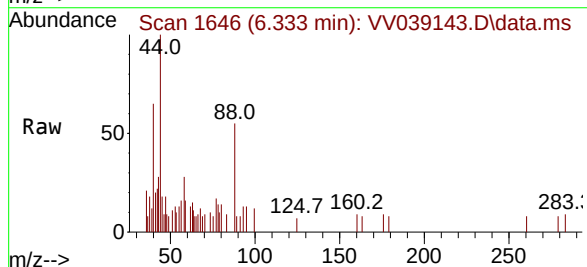
RT: 6.333 min Scan# 1646

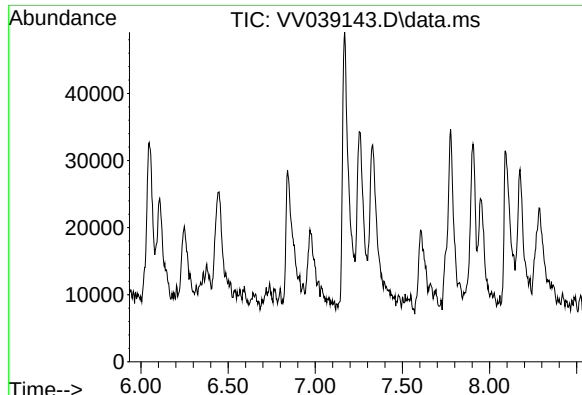
Delta R.T. 0.045 min

Lab File: VV039143.D

Acq: 22 Sep 2025 16:35

Tgt Ion:	88	Resp:	2721
Ion	Ratio	Lower	Upper
88	100		
43	9.6	25.1	37.7#
58	12.8	53.6	80.4#





#50
Toluene-d8
Concen: 0.000 ug/l
Expected RT: 7.23 min

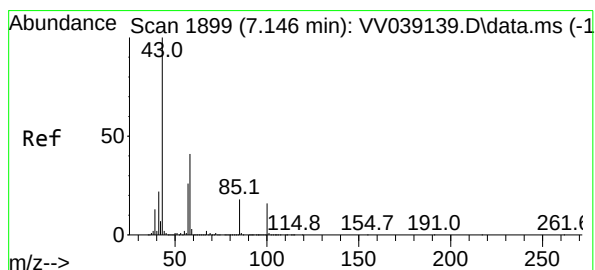
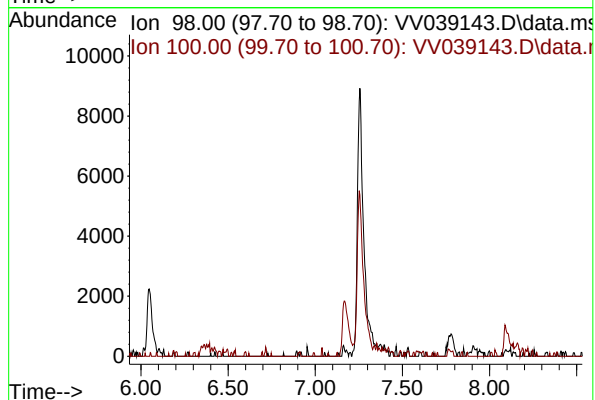
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 98
Sig Exp Ratio
98 100
100 65.2

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

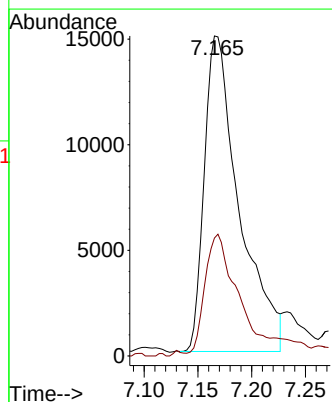
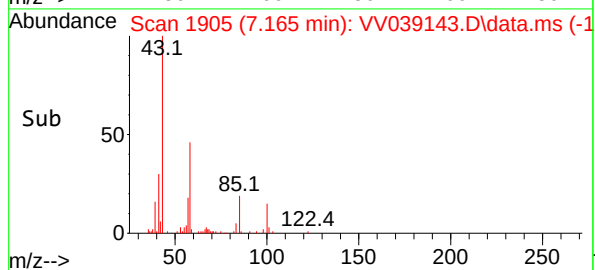
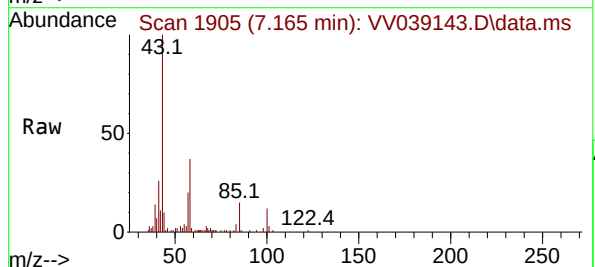
Manual Integrations
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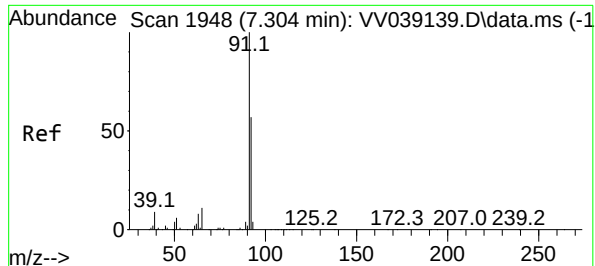
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#51
4-Methyl-2-Pentanone
Concen: 3.472 ug/l
RT: 7.165 min Scan# 1905
Delta R.T. 0.019 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 43 Resp: 33797
Ion Ratio Lower Upper
43 100
58 38.1 32.3 48.5





#52

Toluene

Concen: 0.786 ug/l

RT: 7.326 min Scan# 1948

Delta R.T. 0.022 min

Lab File: VV039143.D

Acq: 22 Sep 2025 16:35

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC001

Tgt Ion: 92 Resp: 1326

Ion Ratio Lower Upper

92 100

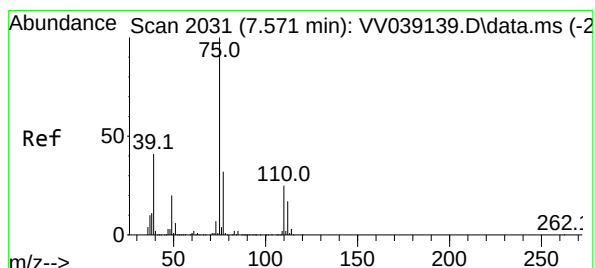
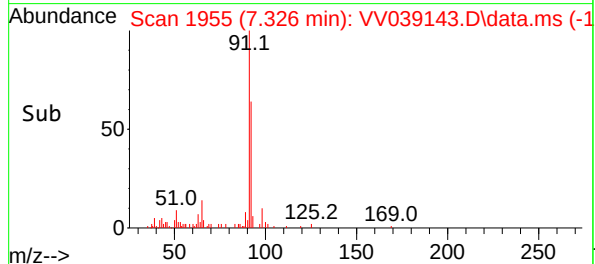
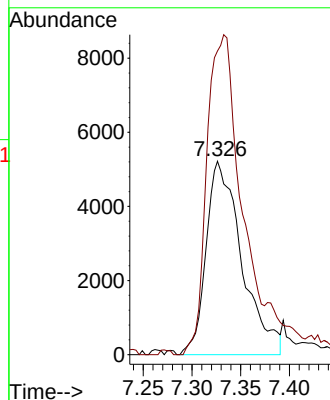
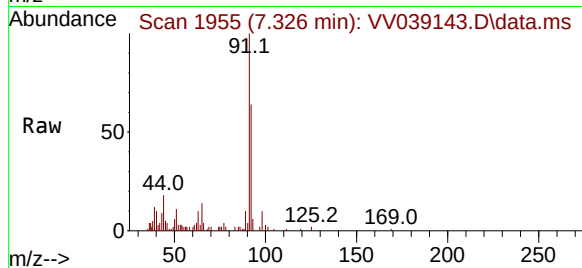
91 156.2 139.2 208.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025

Supervised By :Semsettin Yesilyurt 09/26/2025



#53

t-1,3-Dichloropropene

Concen: 0.807 ug/l

RT: 7.606 min Scan# 2042

Delta R.T. 0.035 min

Lab File: VV039143.D

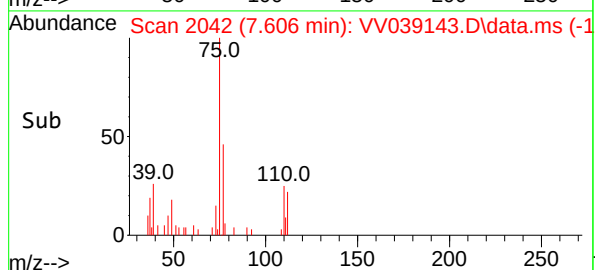
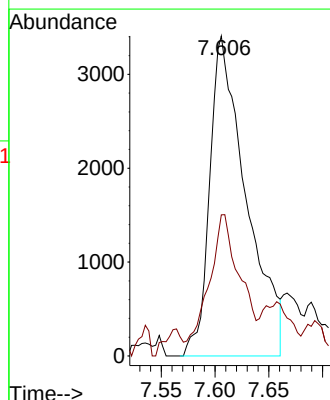
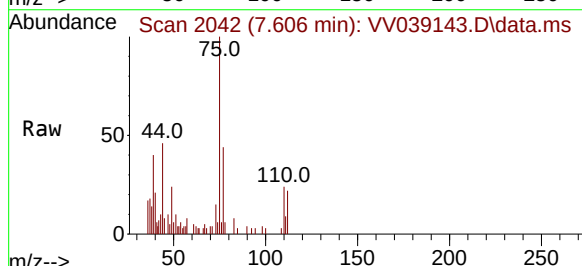
Acq: 22 Sep 2025 16:35

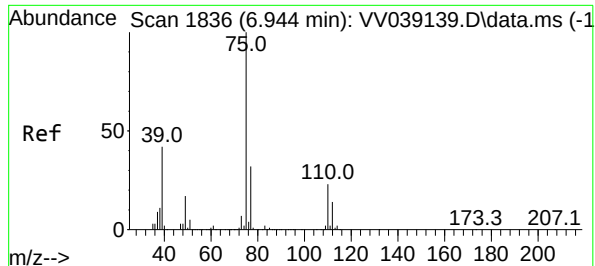
Tgt Ion: 75 Resp: 8060

Ion Ratio Lower Upper

75 100

77 38.0 25.9 38.9





#54

cis-1,3-Dichloropropene

Concen: 0.794 ug/l

RT: 6.973 min Scan# 1845

Delta R.T. 0.029 min

Lab File: VV039143.D

Acq: 22 Sep 2025 16:35

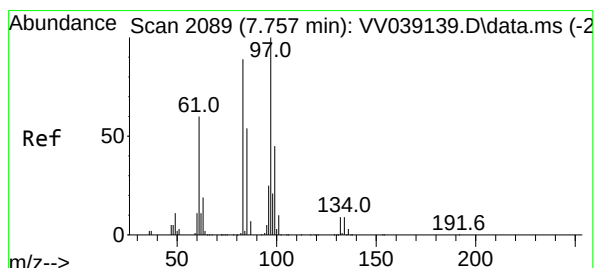
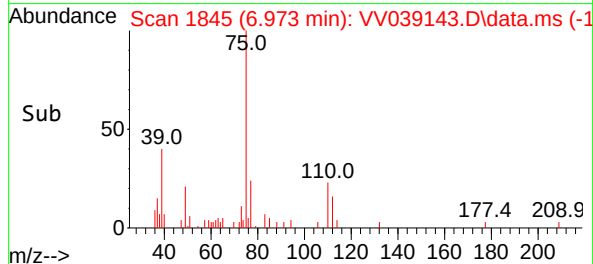
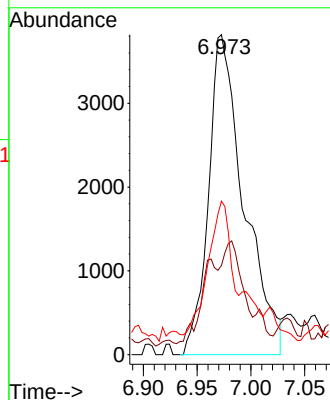
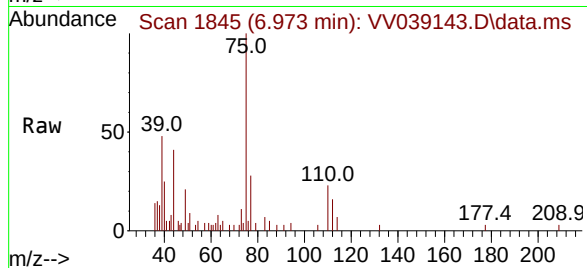
Instrument :

MSVOA_V

ClientSampleId :

VSTDICC001

Tgt Ion:	75	Resp:	875
Ion	Ratio	Lower	Upper
75	100		
77	23.8	25.5	38.3
39	41.7	33.8	50.6

Manual Integrations
APPROVEDReviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

#55

1,1,2-Trichloroethane

Concen: 1.075 ug/l

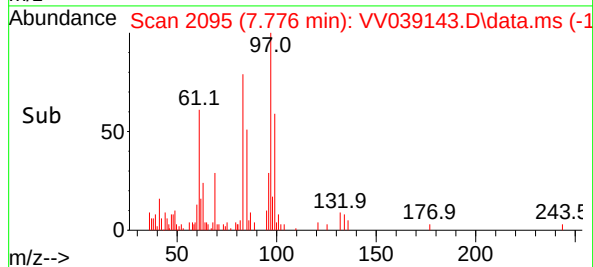
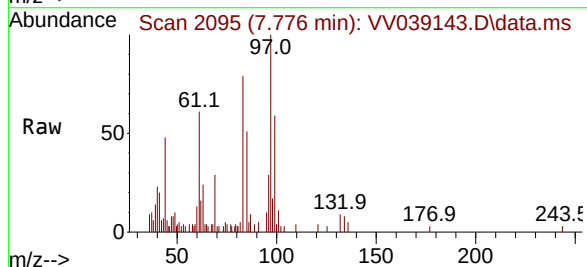
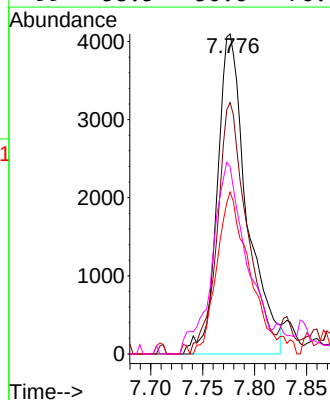
RT: 7.776 min Scan# 2095

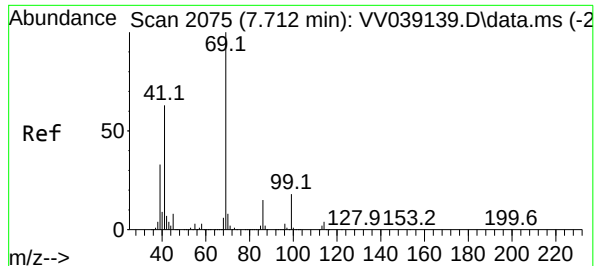
Delta R.T. 0.019 min

Lab File: VV039143.D

Acq: 22 Sep 2025 16:35

Tgt Ion:	97	Resp:	8140
Ion	Ratio	Lower	Upper
97	100		
83	78.6	71.1	106.7
85	50.6	44.6	67.0
99	58.5	50.6	76.0





#56

Ethyl methacrylate

Concen: 0.829 ug/l m

RT: 7.747 min Scan# 2075

Delta R.T. 0.035 min

Lab File: VV039143.D

Acq: 22 Sep 2025 16:35

Instrument :

MSVOA_V

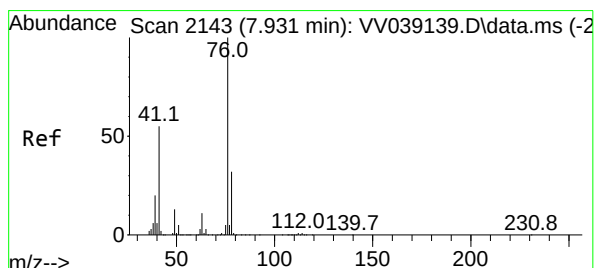
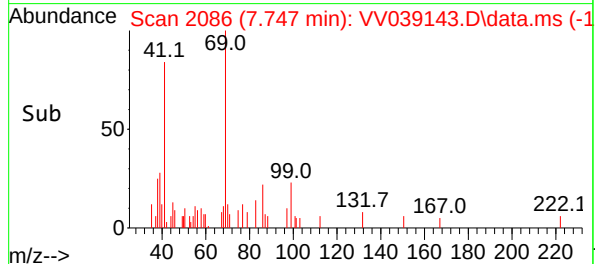
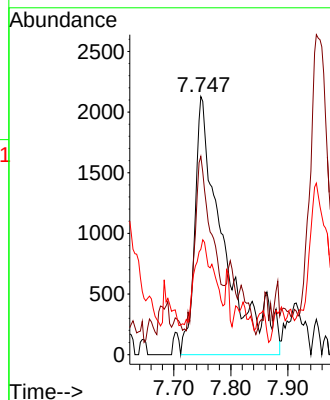
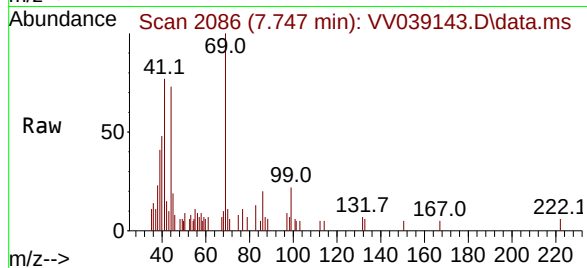
ClientSampleId :

VSTDIC001

Tgt Ion:	69	Resp:	745
Ion	Ratio	Lower	Upper
69	100		
41	40.0	50.7	76.1
39	21.4	26.0	39.0

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#57

1,3-Dichloropropane

Concen: 0.982 ug/l

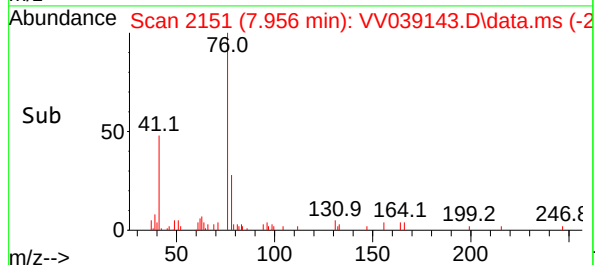
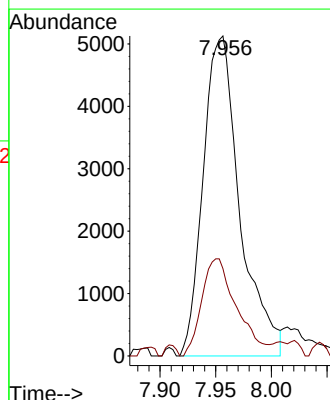
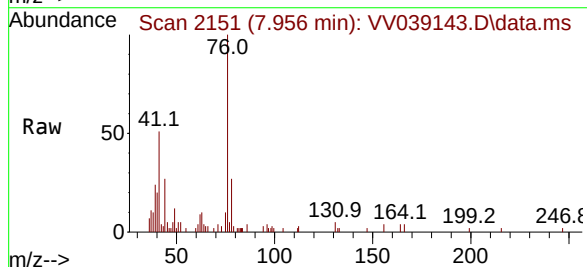
RT: 7.956 min Scan# 2151

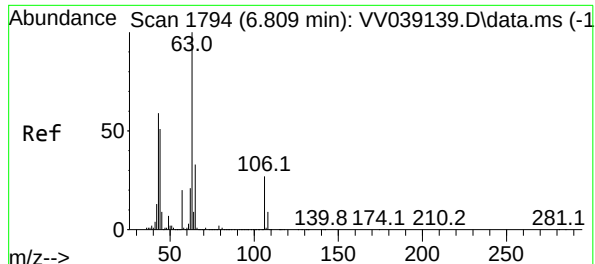
Delta R.T. 0.025 min

Lab File: VV039143.D

Acq: 22 Sep 2025 16:35

Tgt Ion:	76	Resp:	11732
Ion	Ratio	Lower	Upper
76	100		
78	29.1	26.1	39.1





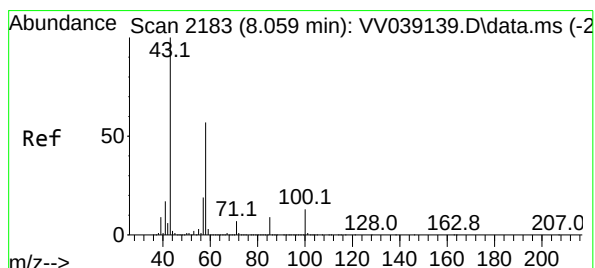
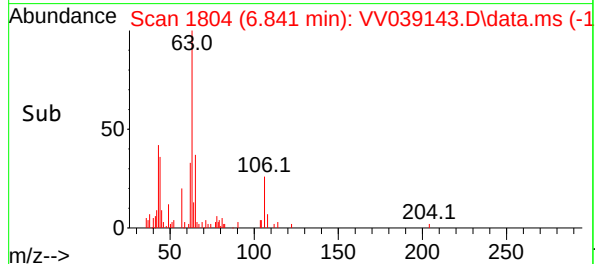
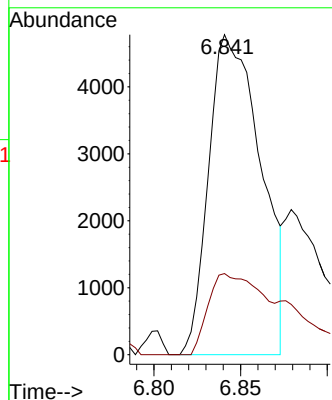
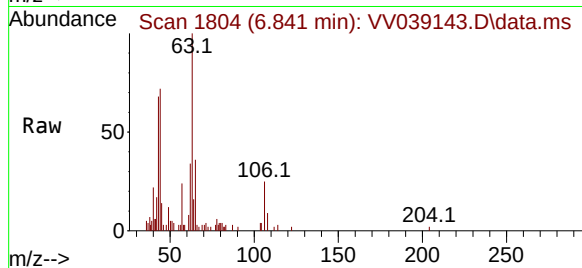
#58
2-Chloroethyl Vinyl ether
Concen: 11.289 ug/l
RT: 6.841 min Scan# 1794
Delta R.T. 0.032 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

Tgt Ion: 63 Resp: 1001
Ion Ratio Lower Upper
63 100
106 26.4 22.1 33.1

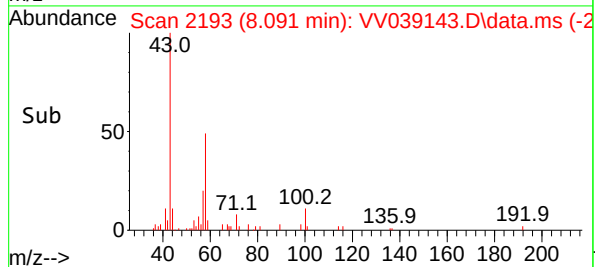
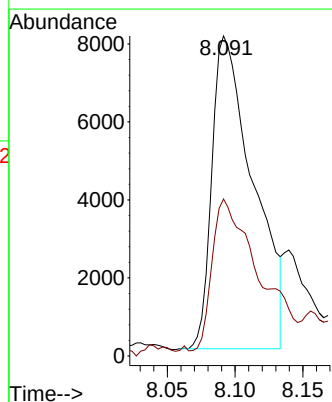
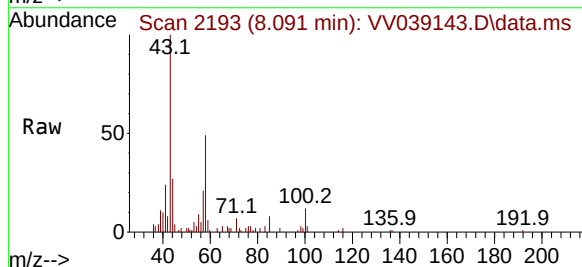
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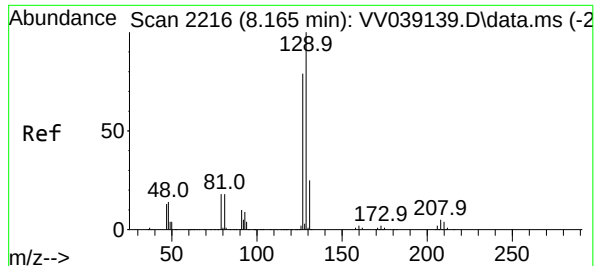
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#59
2-Hexanone
Concen: 4.307 ug/l
RT: 8.091 min Scan# 2193
Delta R.T. 0.032 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 43 Resp: 17015
Ion Ratio Lower Upper
43 100
58 55.1 28.3 85.0





#60

Dibromochloromethane

Concen: 1.057 ug/l

RT: 8.172 min Scan# 2112

Delta R.T. 0.006 min

Lab File: VV039143.D

Acq: 22 Sep 2025 16:35

Instrument :

MSVOA_V

ClientSampleId :

VSTDICC001

Tgt Ion:129 Resp: 912

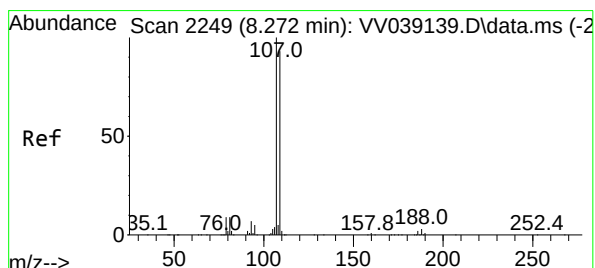
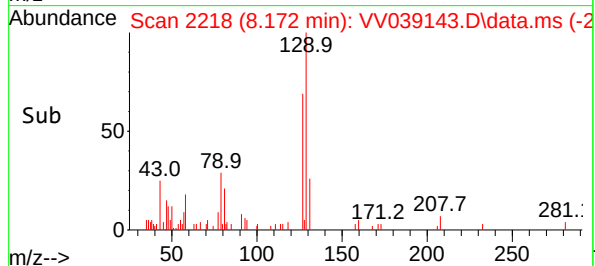
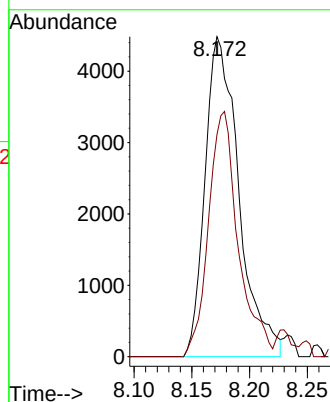
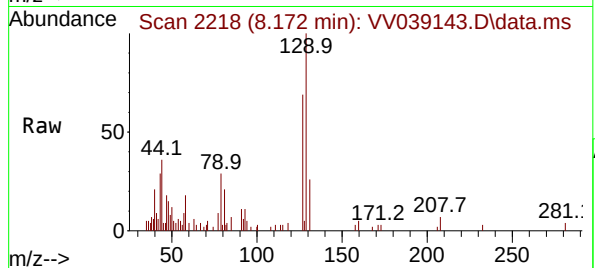
Ion Ratio Lower Upper

129 100

127 67.4 39.3 117.9

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

#61

1,2-Dibromoethane

Concen: 0.921 ug/l

RT: 8.288 min Scan# 2254

Delta R.T. 0.016 min

Lab File: VV039143.D

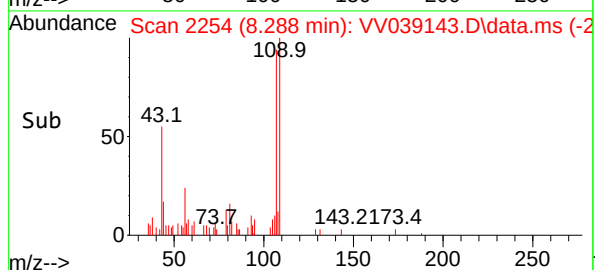
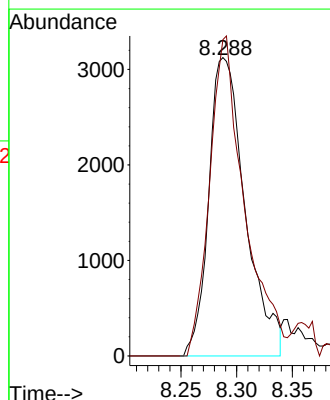
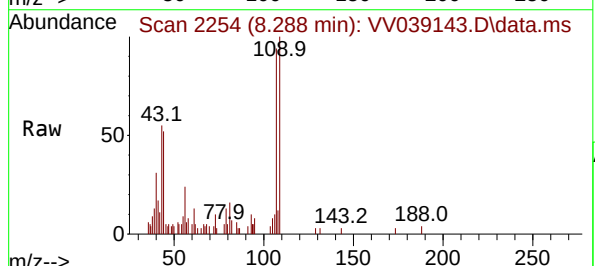
Acq: 22 Sep 2025 16:35

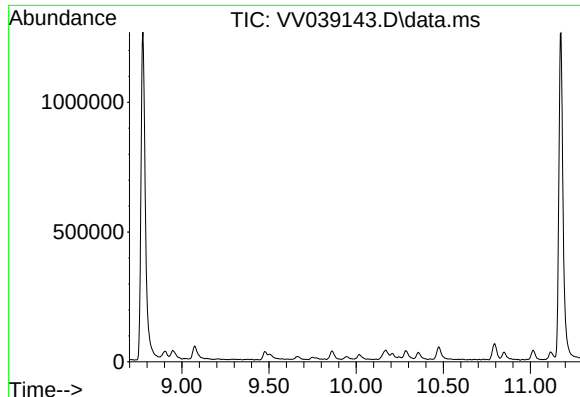
Tgt Ion:107 Resp: 7129

Ion Ratio Lower Upper

107 100

109 102.8 74.6 112.0





#62
4-Bromofluorobenzene
Concen: 0.000 ug/l
Expected RT: 10.00 min

Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 95
Sig Exp Ratio
95 100
174 75.2
176 72.1

Instrument :

MSVOA_V

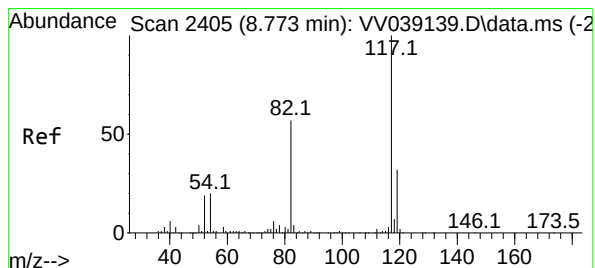
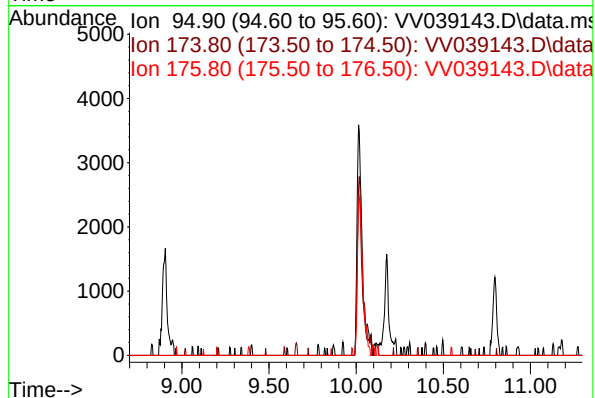
ClientSampleId :

VSTDICC001

Manual Integrations

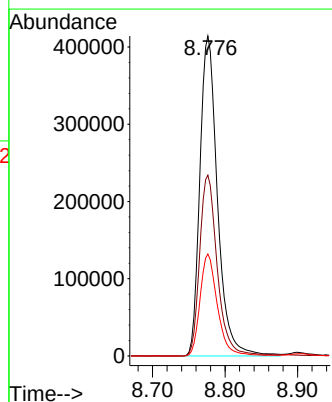
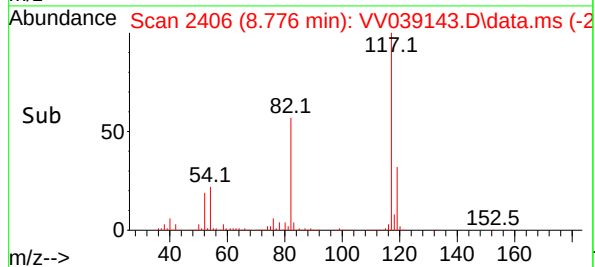
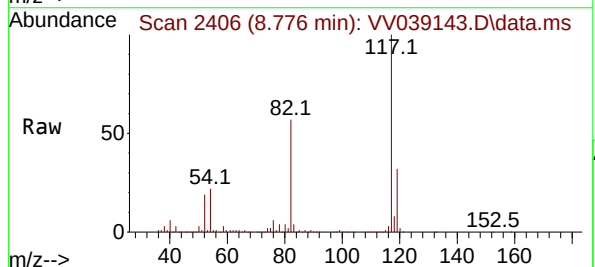
APPROVED

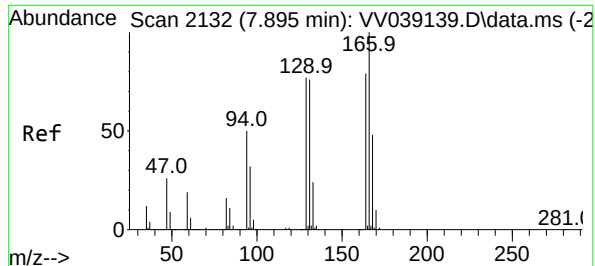
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 2406
Delta R.T. 0.003 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

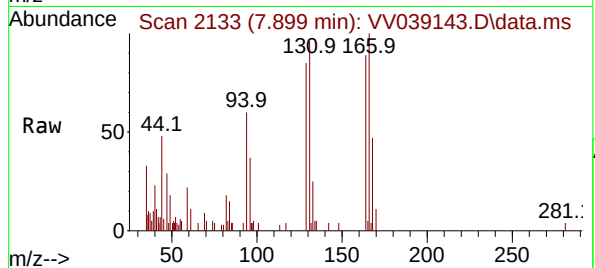
Tgt Ion:117 Resp: 700418
Ion Ratio Lower Upper
117 100
82 56.5 45.4 68.2
119 31.8 25.6 38.4





#64
Tetrachloroethene
Concen: 0.991 ug/l
RT: 7.899 min Scan# 2133
Delta R.T. 0.003 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

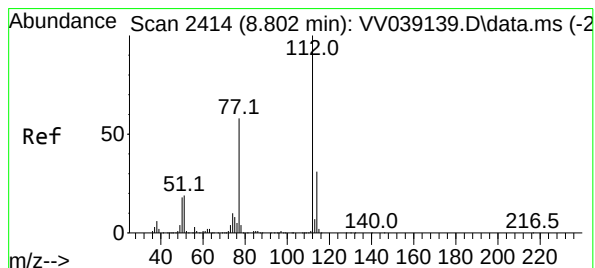
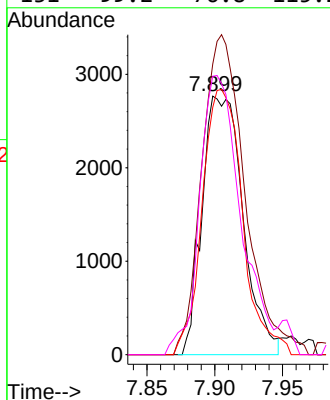
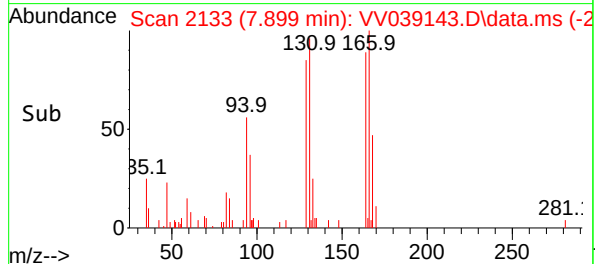
Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001



Tgt Ion:164 Resp: 5814
Ion Ratio Lower Upper
164 100
166 107.6 101.6 152.4
129 91.4 78.5 117.7
131 99.2 76.8 115.2

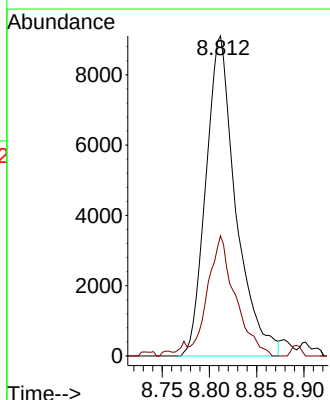
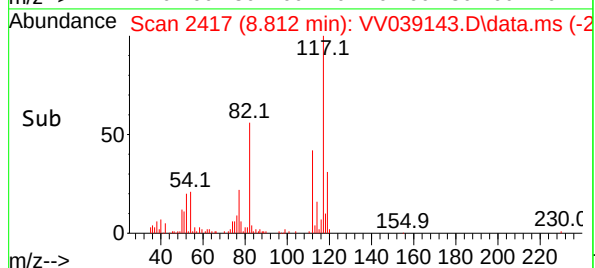
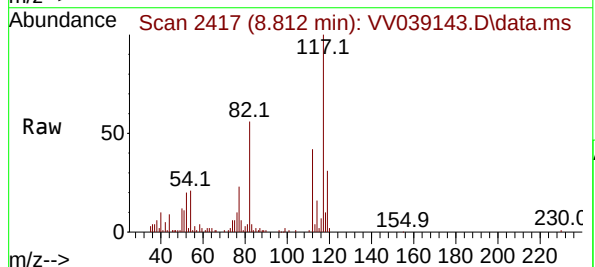
Manual Integrations
APPROVED

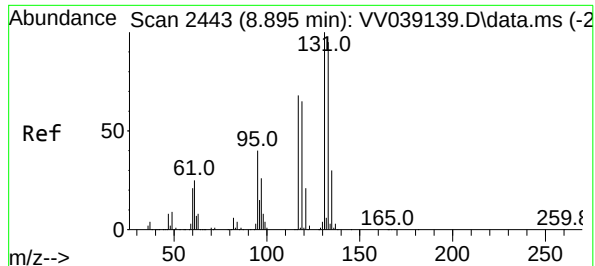
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#65
Chlorobenzene
Concen: 1.025 ug/l
RT: 8.812 min Scan# 2417
Delta R.T. 0.010 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:112 Resp: 20007
Ion Ratio Lower Upper
112 100
114 37.5 24.6 37.0#





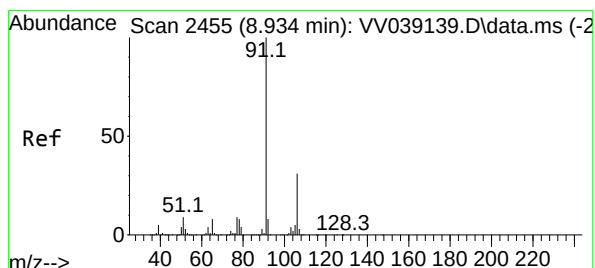
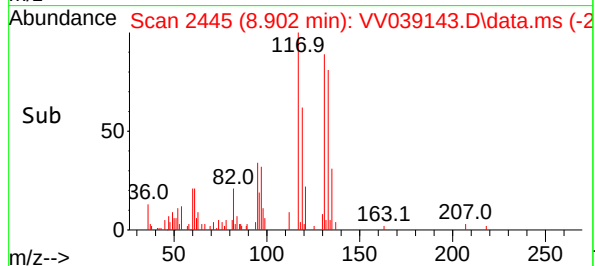
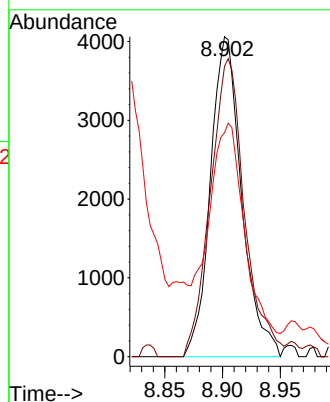
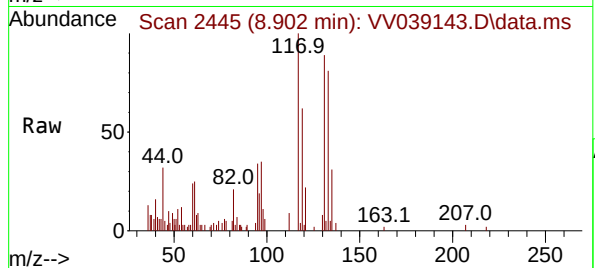
#66
1,1,1,2-Tetrachloroethane
Concen: 1.079 ug/l
RT: 8.902 min Scan# 2445
Delta R.T. 0.006 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

Tgt Ion: 131 Resp: 760
Ion Ratio Lower Upper
131 100
133 102.5 47.3 141.8
119 0.0 33.3 99.8

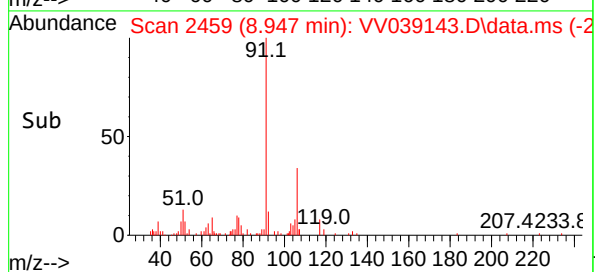
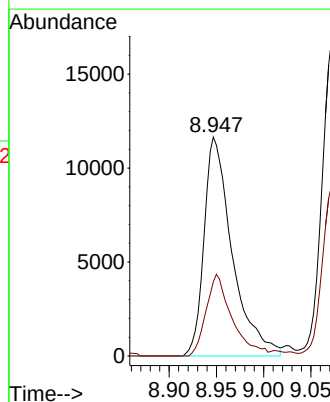
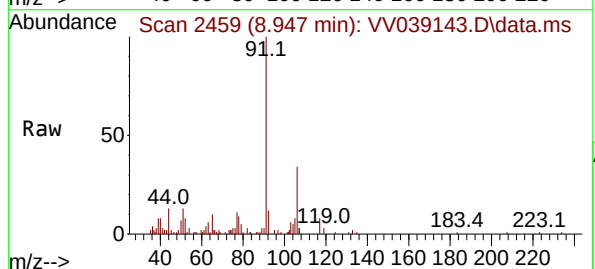
Manual Integrations
APPROVED

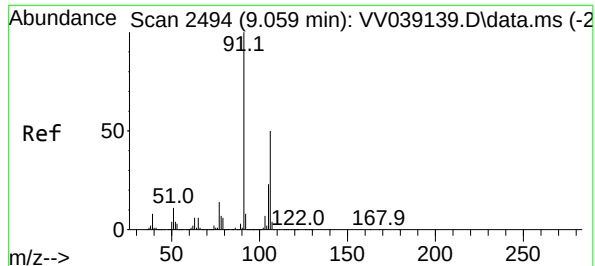
Reviewed By : Mahesh Dadoda 09/26/2025
Supervised By : Semsettin Yesilyurt 09/26/2025



#67
Ethyl Benzene
Concen: 0.818 ug/l
RT: 8.947 min Scan# 2459
Delta R.T. 0.013 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 91 Resp: 24171
Ion Ratio Lower Upper
91 100
106 33.9 24.6 37.0





#68

m/p-Xylenes

Concen: 1.425 ug/l

RT: 9.072 min Scan# 2498

Delta R.T. 0.013 min

Lab File: VV039143.D

Acq: 22 Sep 2025 16:35

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC001

Tgt Ion:106 Resp: 16239

Ion Ratio Lower Upper

106 100

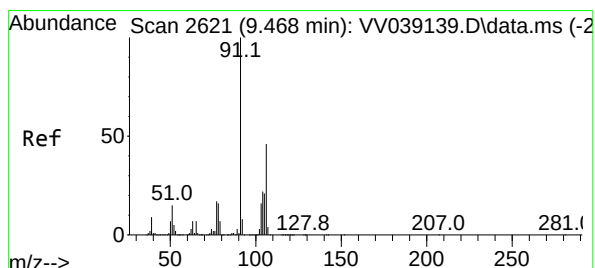
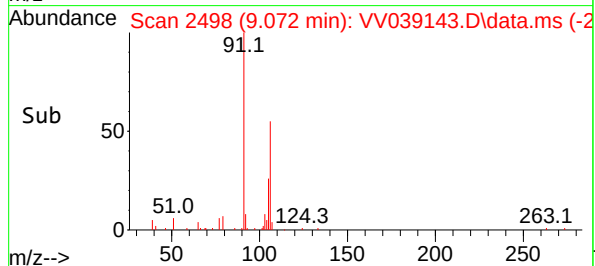
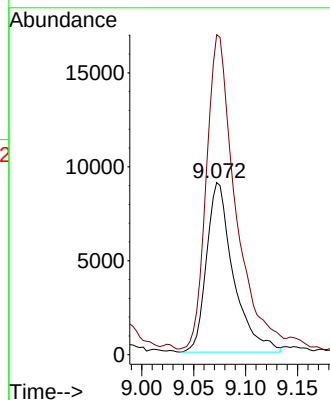
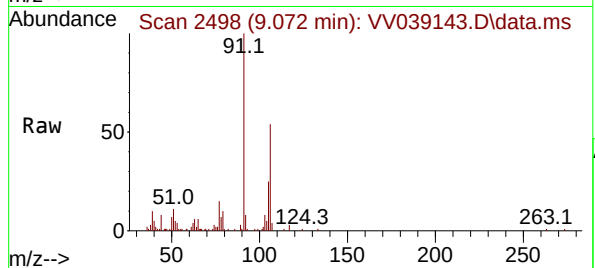
91 200.5 162.5 243.7

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025

Supervised By :Semsettin Yesilyurt 09/26/2025



#69

o-Xylene

Concen: 0.718 ug/l

RT: 9.477 min Scan# 2624

Delta R.T. 0.010 min

Lab File: VV039143.D

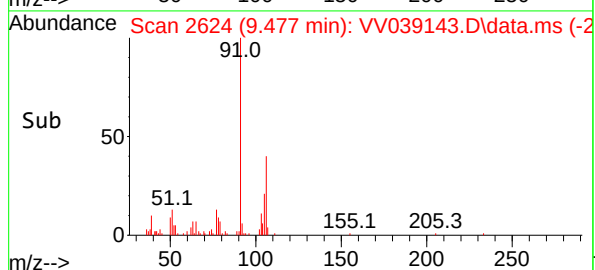
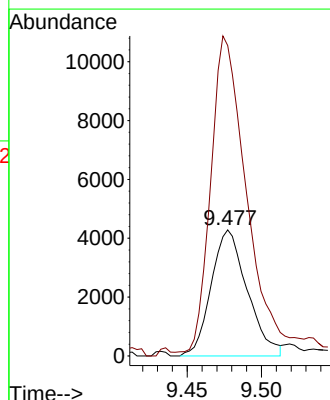
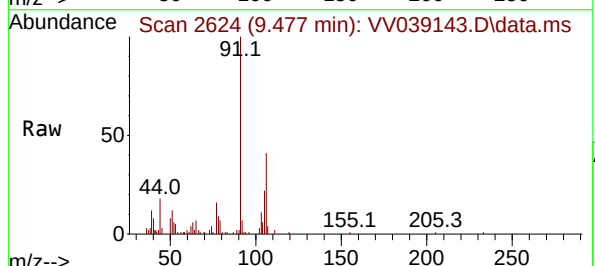
Acq: 22 Sep 2025 16:35

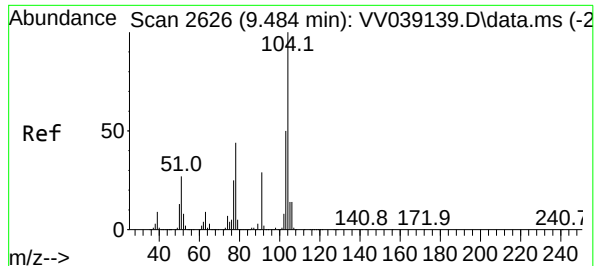
Tgt Ion:106 Resp: 7250

Ion Ratio Lower Upper

106 100

91 252.4 109.1 327.3





#70

Styrene

Concen: 2.083 ug/l

RT: 9.503 min Scan# 2632

Delta R.T. 0.019 min

Lab File: VV039143.D

Acq: 22 Sep 2025 16:35

Instrument :

MSVOA_V

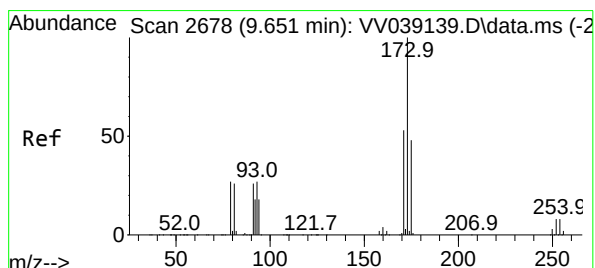
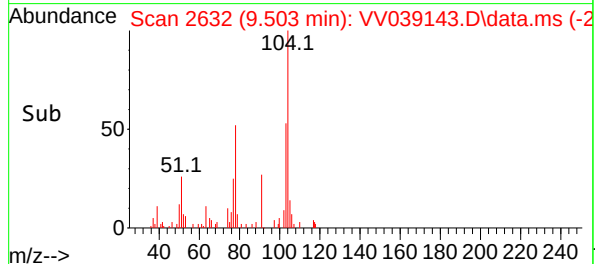
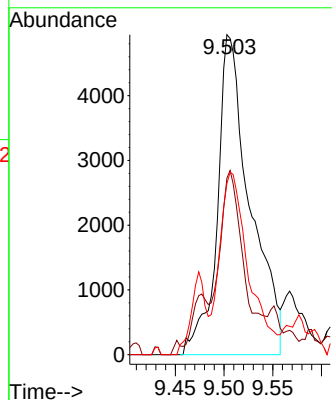
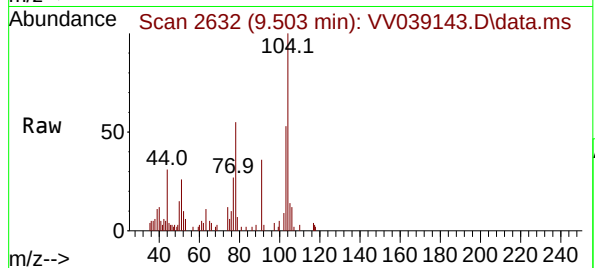
ClientSampleId :

VSTDIC001

Tgt Ion:	104	Resp:	11594
Ion Ratio	Lower	Upper	
104	100		
78	31.2	39.8	59.6
103	43.9	43.4	65.2

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#71

Bromoform

Concen: 1.009 ug/l

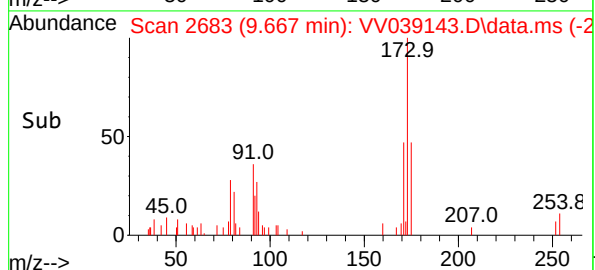
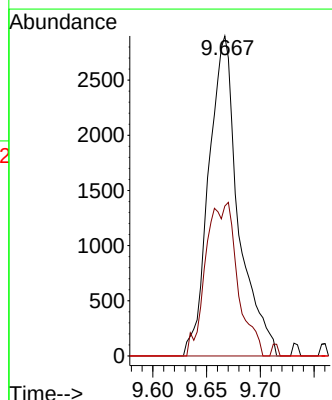
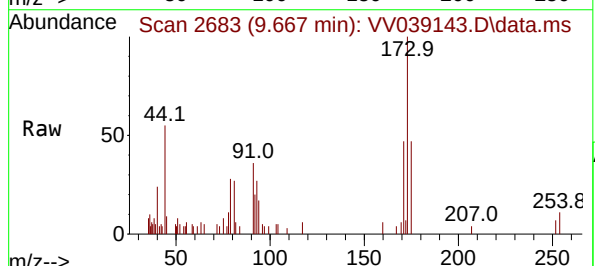
RT: 9.667 min Scan# 2683

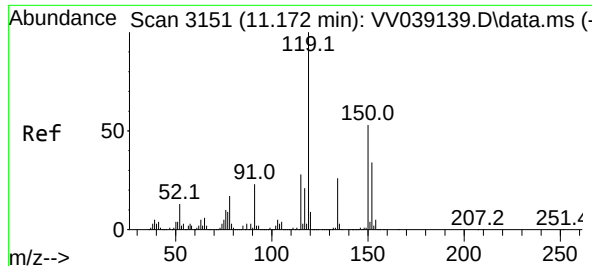
Delta R.T. 0.016 min

Lab File: VV039143.D

Acq: 22 Sep 2025 16:35

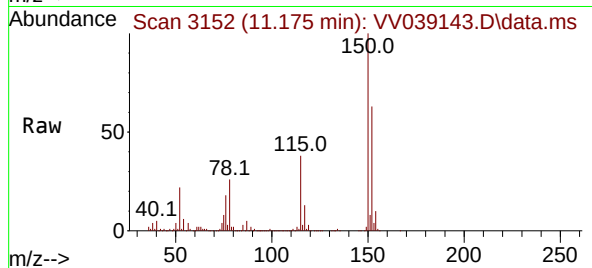
Tgt Ion:	173	Resp:	5558
Ion Ratio	Lower	Upper	
173	100		
175	51.7	23.9	71.7
254	0.0	0.1	0.1





#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.175 min Scan# 3151
Delta R.T. 0.003 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

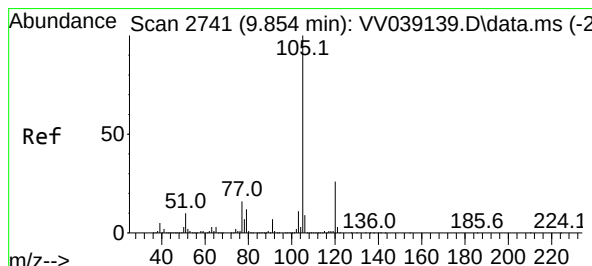
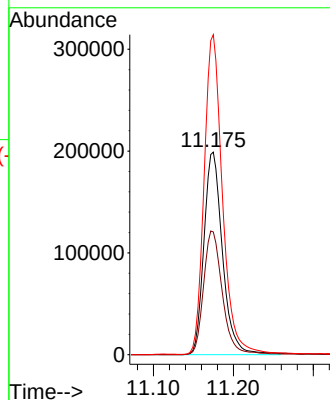
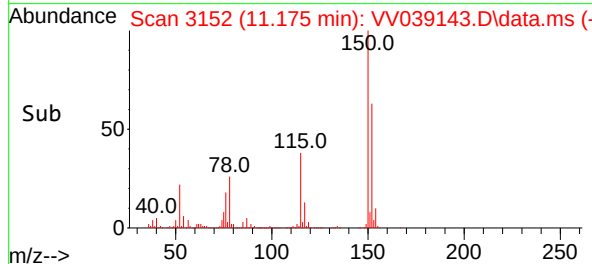
Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001



Tgt Ion:152 Resp: 32267
Ion Ratio Lower Upper
152 100
115 61.9 44.8 134.4
150 156.1 0.0 353.8

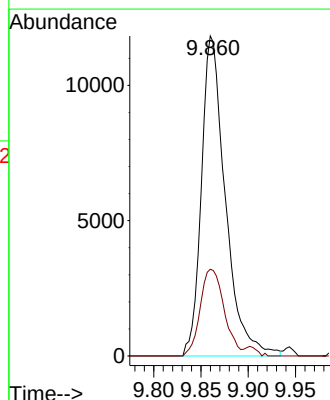
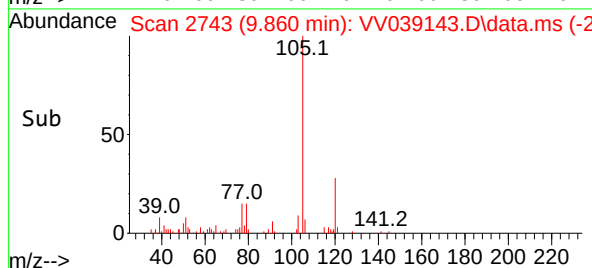
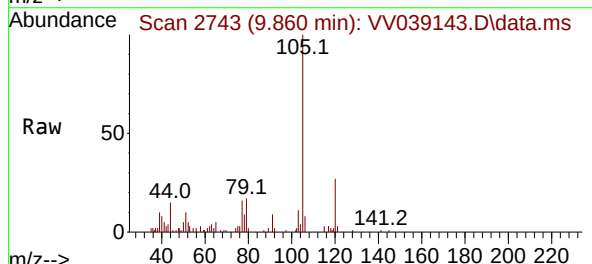
Manual Integrations
APPROVED

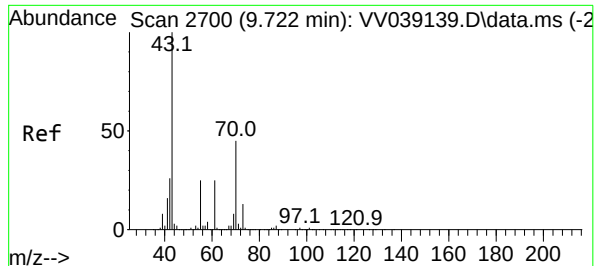
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#73
Isopropylbenzene
Concen: 0.890 ug/l
RT: 9.860 min Scan# 2743
Delta R.T. 0.006 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

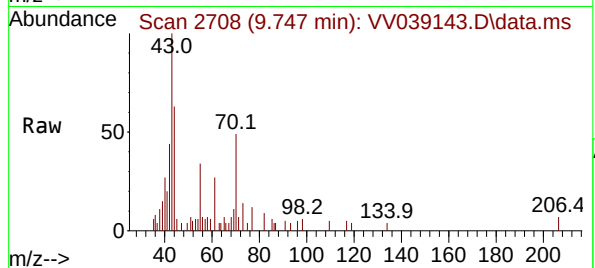
Tgt Ion:105 Resp: 20820
Ion Ratio Lower Upper
105 100
120 27.0 13.1 39.1





#74
N-amy1 acetate
Concen: 0.713 ug/l
RT: 9.747 min Scan# 21
Delta R.T. 0.026 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

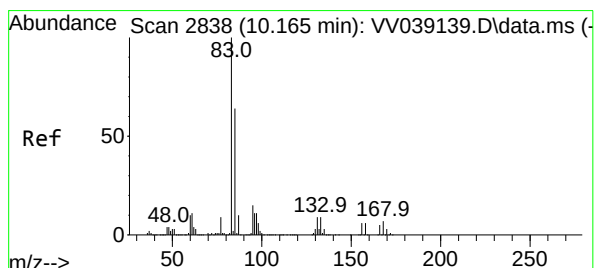
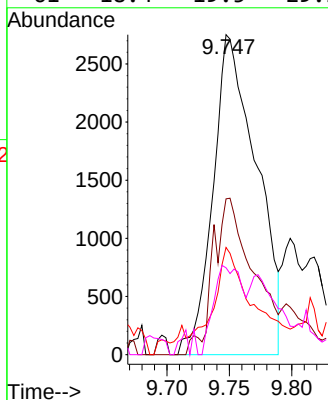
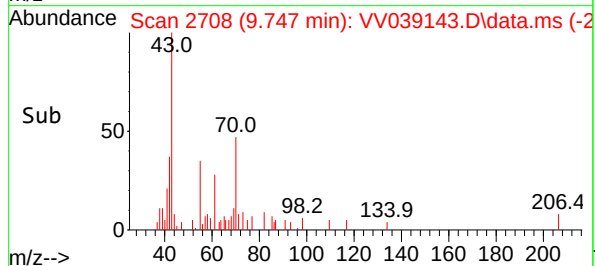
Instrument :
MSVOA_V
ClientSampleId :
VSTDIC001



Tgt Ion: 43 Resp: 6654
Ion Ratio Lower Upper
43 100
70 39.0 35.4 53.0
55 22.6 20.6 30.8
61 18.4 19.5 29.3#

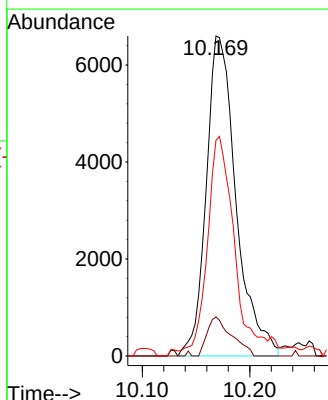
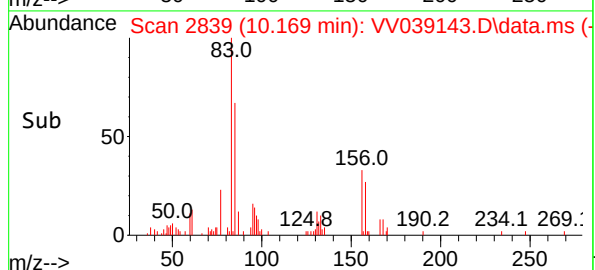
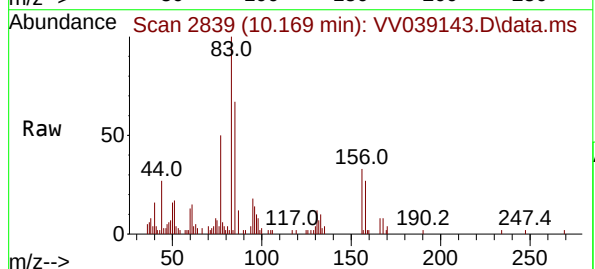
Manual Integrations
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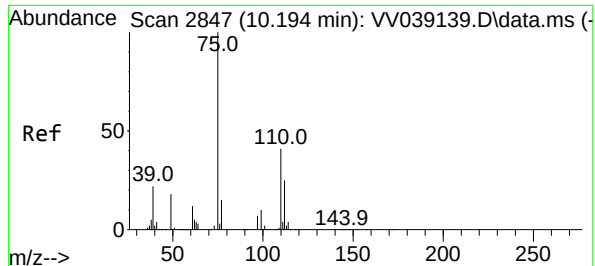
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#75
1,1,2,2-Tetrachloroethane
Concen: 1.243 ug/l
RT: 10.169 min Scan# 2839
Delta R.T. 0.003 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 83 Resp: 12746
Ion Ratio Lower Upper
83 100
131 9.9 4.5 13.7
85 59.8 31.9 95.9





#76

1,2,3-Trichloropropane

Concen: 1.207 ug/l

RT: 10.207 min Scan# 2847

Delta R.T. 0.013 min

Lab File: VV039143.D

Acq: 22 Sep 2025 16:35

Tgt Ion: 75 Resp: 887

Ion Ratio Lower Upper

75 100

77 22.5 11.3 33.8

Instrument :

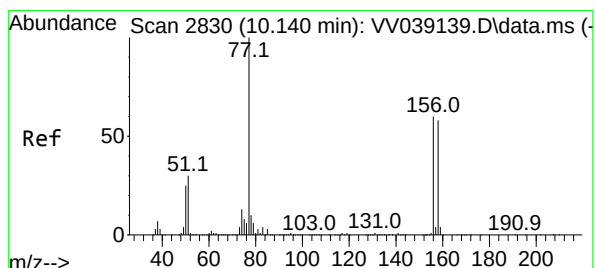
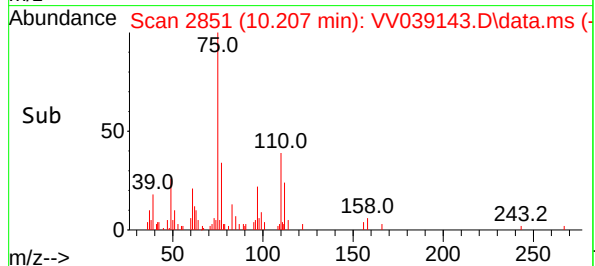
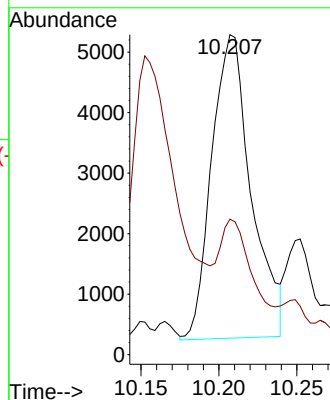
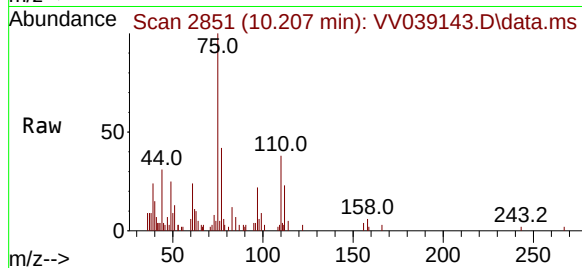
MSVOA_V

ClientSampleId :

VSTDIC001

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

#77

Bromobenzene

Concen: 1.039 ug/l

RT: 10.159 min Scan# 2836

Delta R.T. 0.019 min

Lab File: VV039143.D

Acq: 22 Sep 2025 16:35

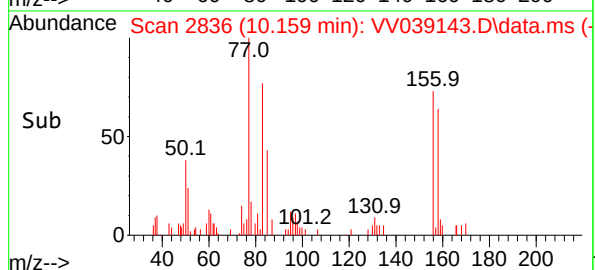
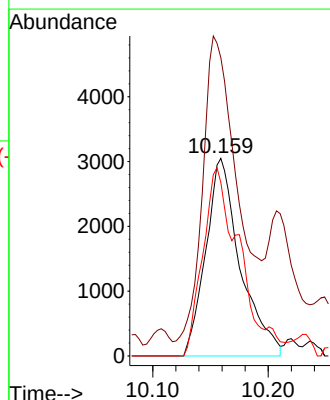
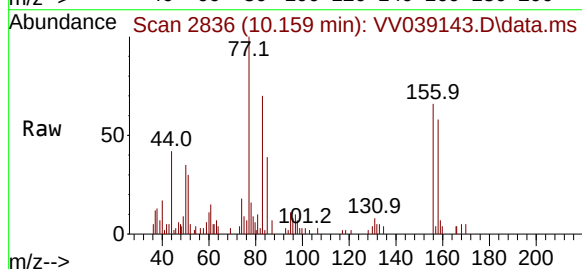
Tgt Ion:156 Resp: 6311

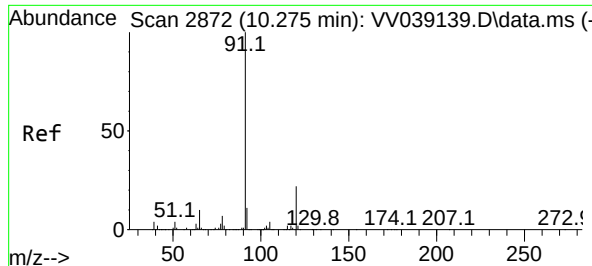
Ion Ratio Lower Upper

156 100

77 155.9 83.4 250.1

158 103.1 48.8 146.4





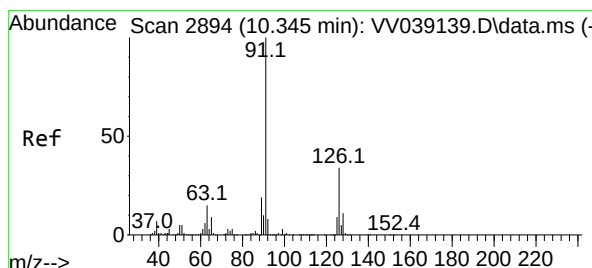
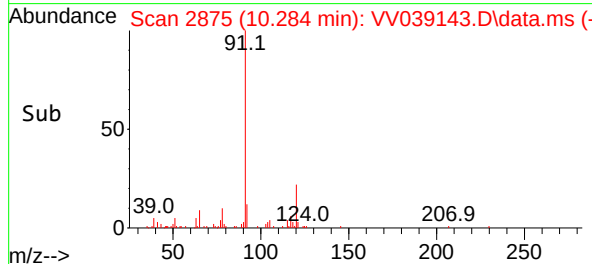
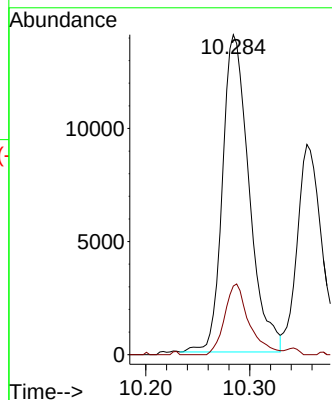
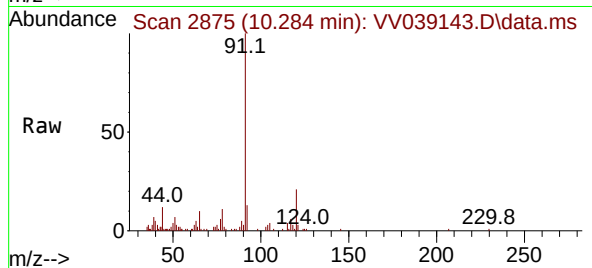
#78
n-propylbenzene
Concen: 0.877 ug/l
RT: 10.284 min Scan# 2875
Delta R.T. 0.010 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Instrument :
MSVOA_V
ClientSampleId :
VSTDIC001

Tgt Ion: 91 Resp: 24990
Ion Ratio Lower Upper
91 100
120 20.5 11.1 33.3

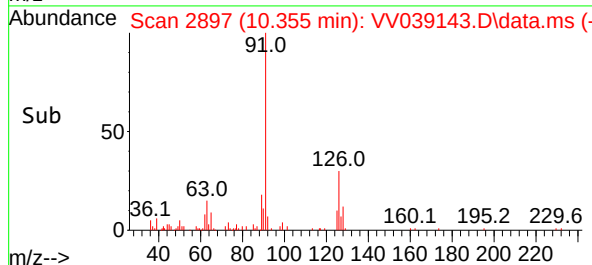
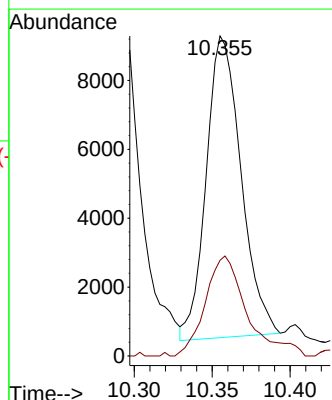
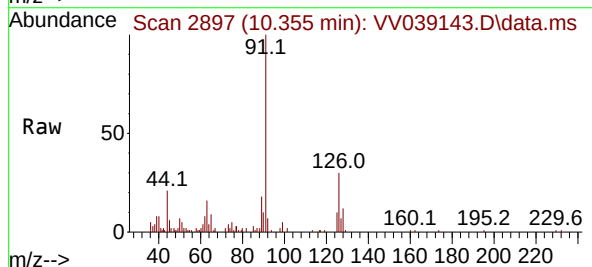
Manual Integrations
APPROVED

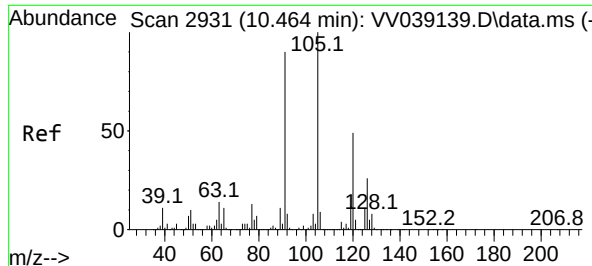
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#79
2-Chlorotoluene
Concen: 0.800 ug/l
RT: 10.355 min Scan# 2897
Delta R.T. 0.010 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 91 Resp: 13640
Ion Ratio Lower Upper
91 100
126 39.3 16.7 50.0





#80

1,3,5-Trimethylbenzene

Concen: 0.817 ug/l

RT: 10.471 min Scan# 2933

Delta R.T. 0.006 min

Lab File: VV039143.D

Acq: 22 Sep 2025 16:35

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC001

Tgt Ion:105 Resp: 1588

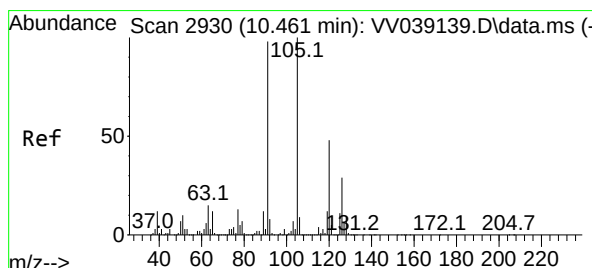
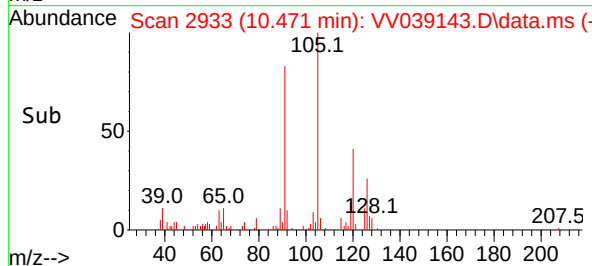
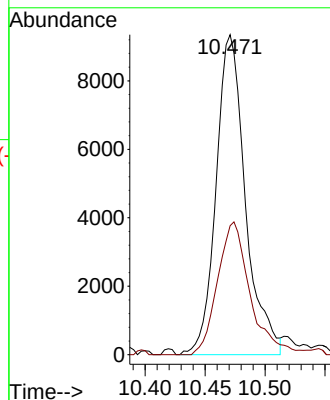
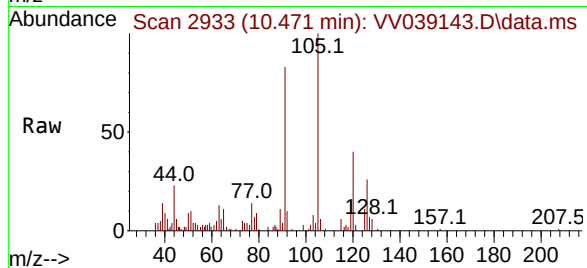
Ion Ratio Lower Upper

105 100

120 46.1 24.3 72.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

#82

4-Chlorotoluene

Concen: 0.777 ug/l

RT: 10.474 min Scan# 2934

Delta R.T. 0.013 min

Lab File: VV039143.D

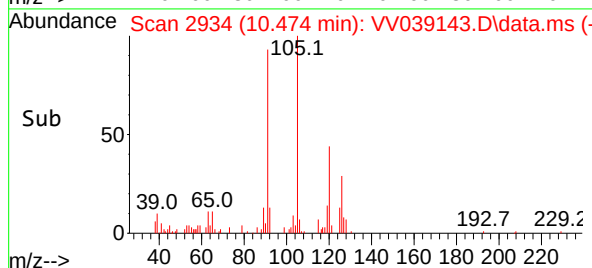
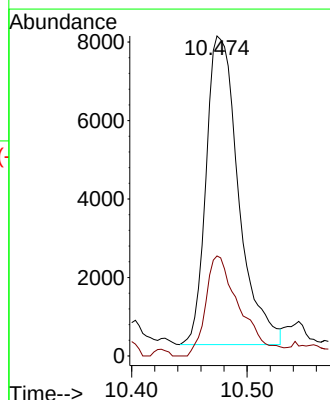
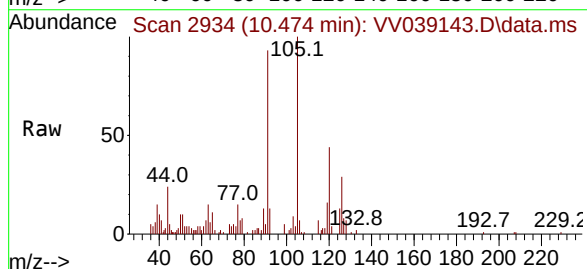
Acq: 22 Sep 2025 16:35

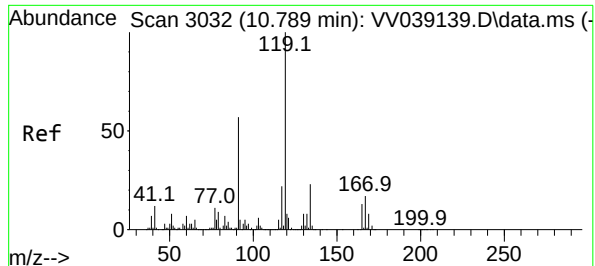
Tgt Ion: 91 Resp: 15363

Ion Ratio Lower Upper

91 100

126 34.2 14.5 43.6





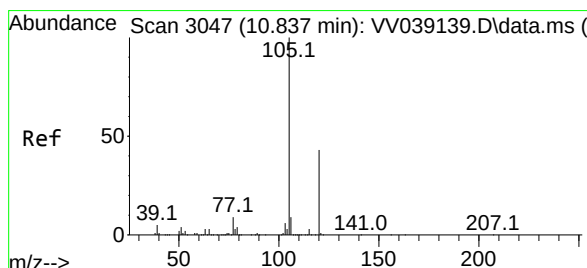
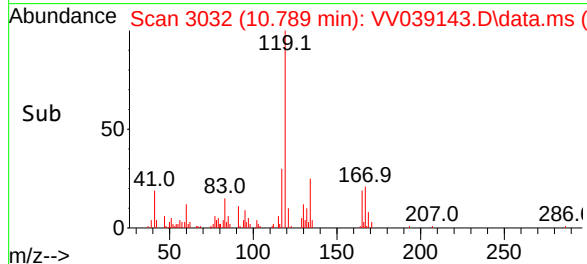
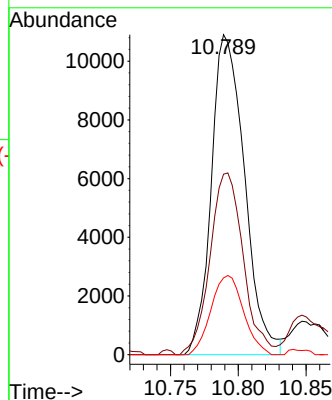
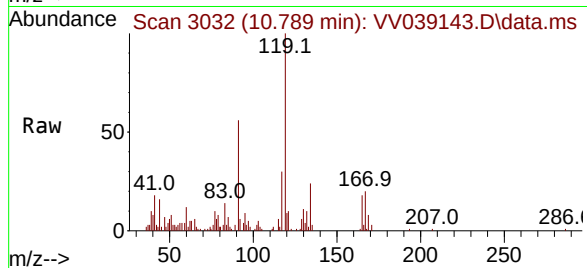
#83
tert-Butylbenzene
Concen: 0.956 ug/l
RT: 10.789 min Scan# 3032
Delta R.T. -0.000 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

Tgt Ion	Ratio	Lower	Upper
119	100		
91	56.8	28.5	85.6
134	24.3	11.5	34.4

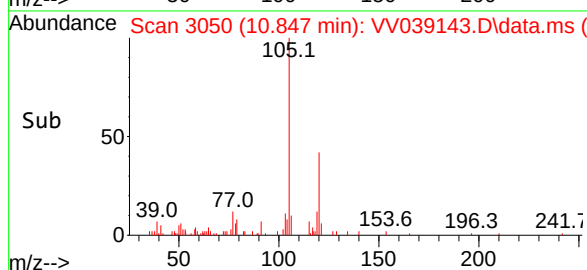
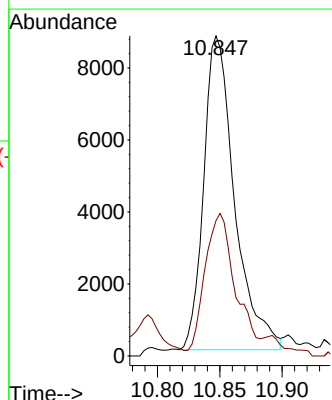
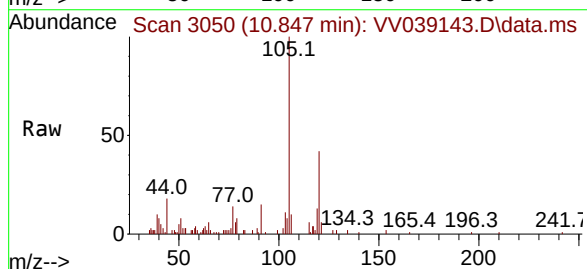
Manual Integrations
APPROVED

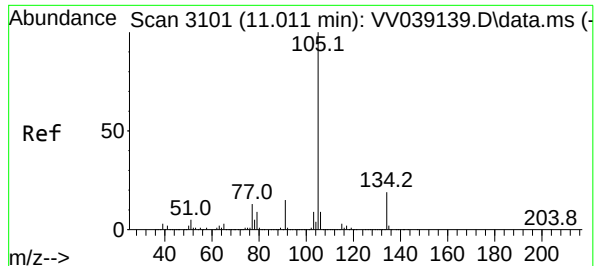
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#84
1,2,4-Trimethylbenzene
Concen: 0.797 ug/l
RT: 10.847 min Scan# 3050
Delta R.T. 0.010 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion	Ratio	Lower	Upper
105	100		
120	41.8	22.4	67.2





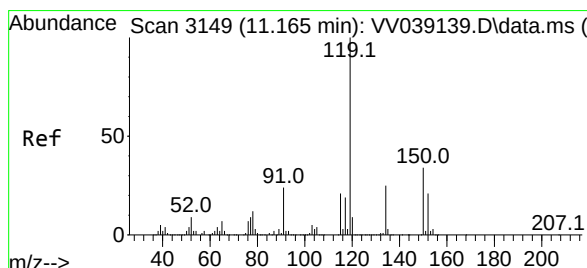
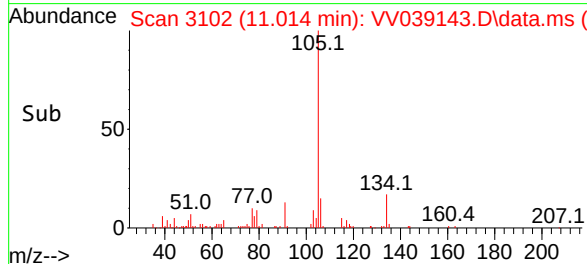
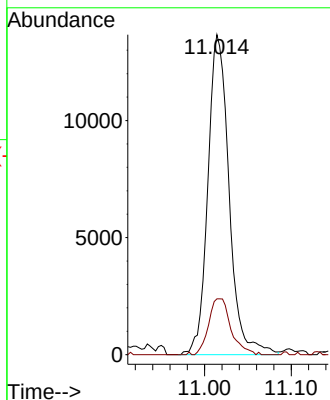
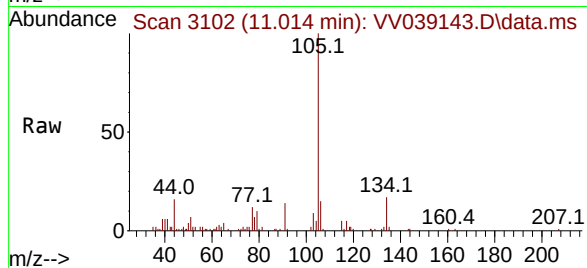
#85
sec-Butylbenzene
Concen: 0.904 ug/l
RT: 11.014 min Scan# 3101
Delta R.T. 0.003 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Instrument :
MSVOA_V
ClientSampleId :
VSTDIC001

Tgt Ion:105 Resp: 2326
Ion Ratio Lower Upper
105 100
134 18.3 9.6 28.8

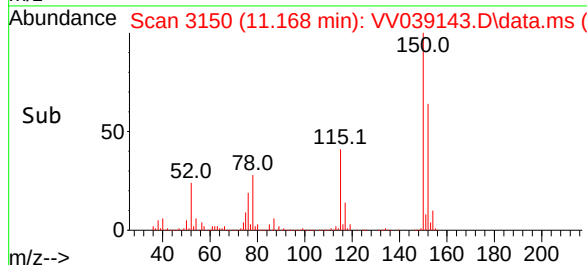
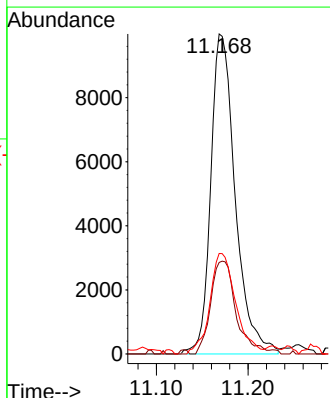
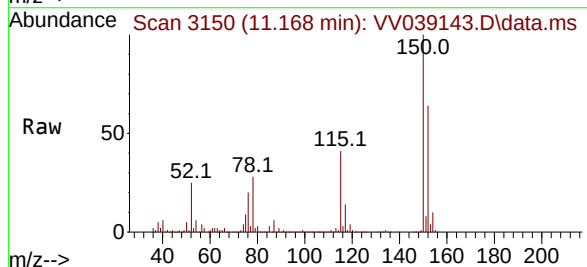
Manual Integrations
APPROVED

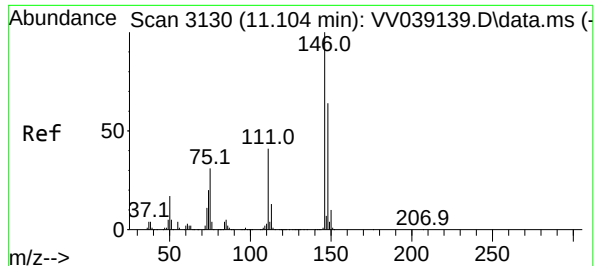
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#86
p-Isopropyltoluene
Concen: 0.866 ug/l
RT: 11.168 min Scan# 3150
Delta R.T. 0.003 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:119 Resp: 18549
Ion Ratio Lower Upper
119 100
134 29.9 12.7 38.0
91 33.1 12.0 36.1





#87

1,3-Dichlorobenzene

Concen: 1.037 ug/l

RT: 11.117 min Scan# 3134

Delta R.T. 0.013 min

Lab File: VV039143.D

Acq: 22 Sep 2025 16:35

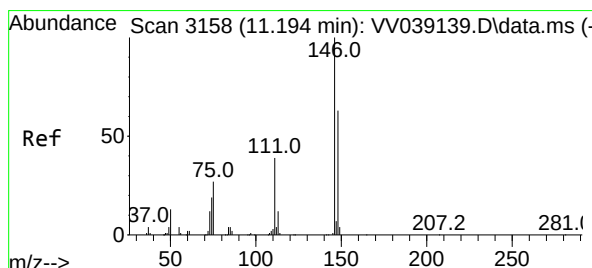
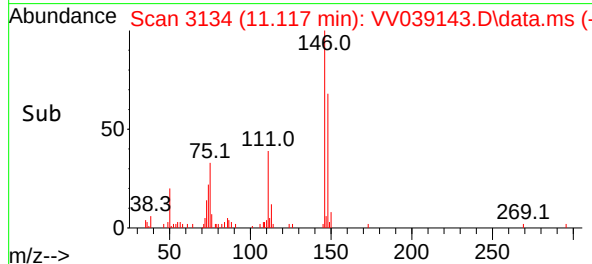
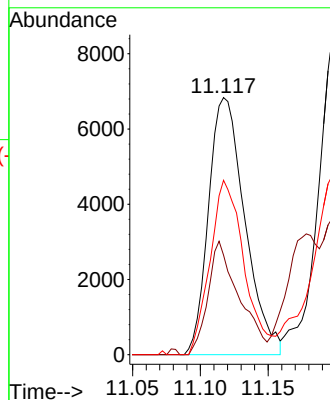
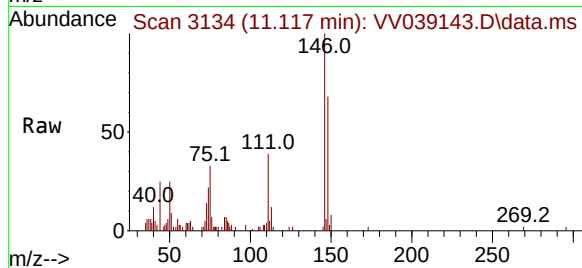
Instrument :

MSVOA_V

ClientSampleId :

VSTDIC001

Tgt Ion:	146	Resp:	1274
Ion Ratio	Lower	Upper	
146	100		
111	38.0	20.9	62.8
148	64.1	31.8	95.3

Manual Integrations
APPROVEDReviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

#88

1,4-Dichlorobenzene

Concen: 1.199 ug/l m

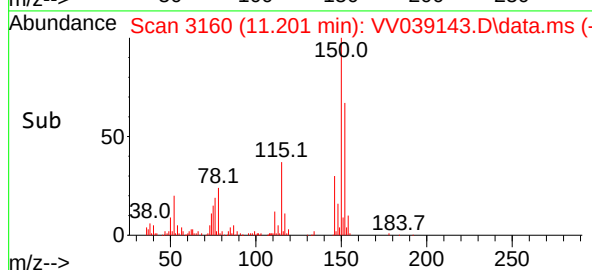
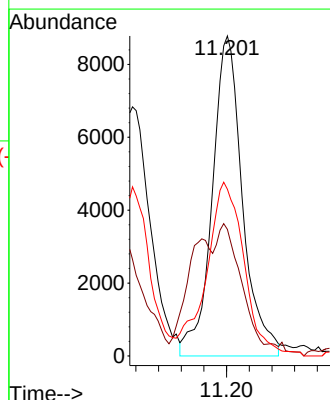
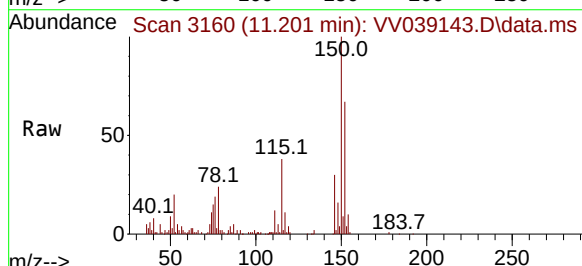
RT: 11.201 min Scan# 3160

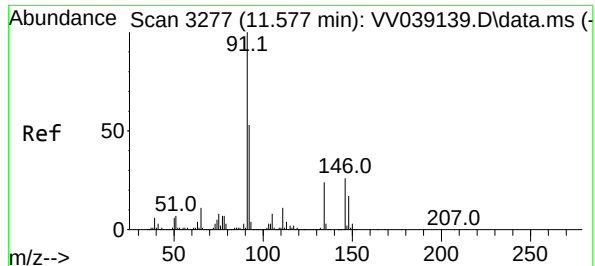
Delta R.T. 0.006 min

Lab File: VV039143.D

Acq: 22 Sep 2025 16:35

Tgt Ion:	146	Resp:	16279
Ion Ratio	Lower	Upper	
146	100		
111	29.7	20.3	60.8
148	50.2	31.4	94.2





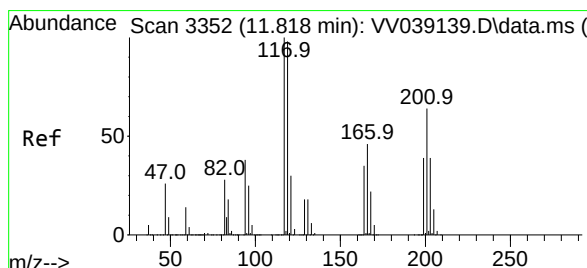
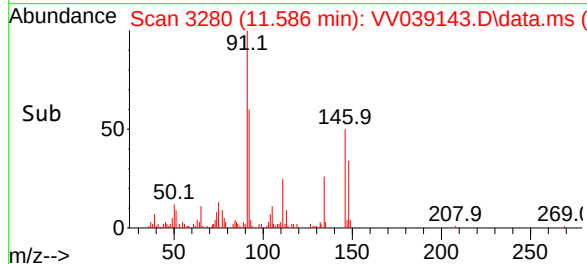
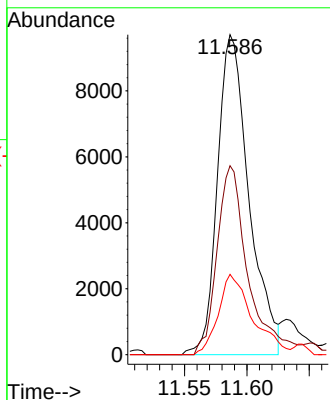
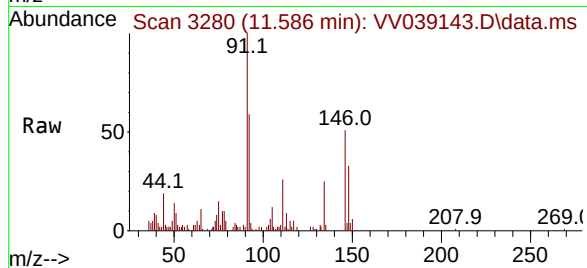
#89
n-Butylbenzene
Concen: 0.835 ug/l
RT: 11.586 min Scan# 31
Delta R.T. 0.009 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

Tgt Ion:	91	Resp:	17079
Ion Ratio	Lower	Upper	
91	100		
92	57.8	26.6	79.8
134	27.3	12.1	36.3

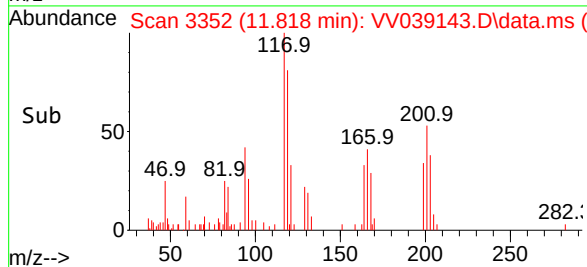
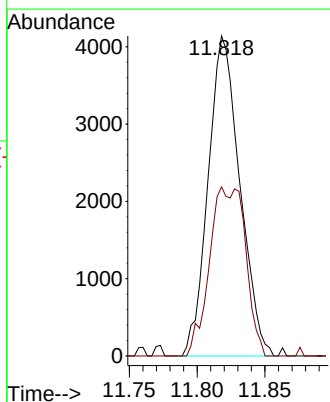
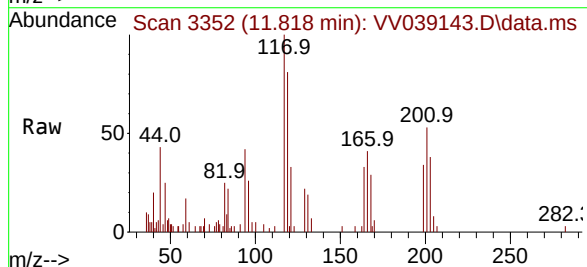
Manual Integrations
APPROVED

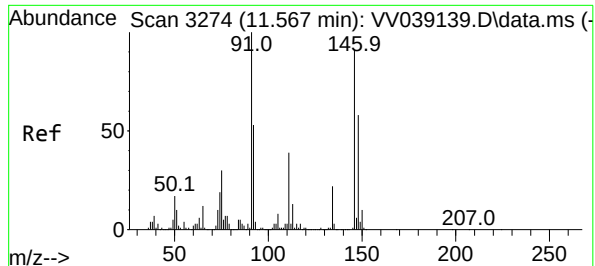
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#90
Hexachloroethane
Concen: 1.277 ug/l
RT: 11.818 min Scan# 3352
Delta R.T. -0.000 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:	117	Resp:	6736
Ion Ratio	Lower	Upper	
117	100		
201	60.0	32.3	96.8





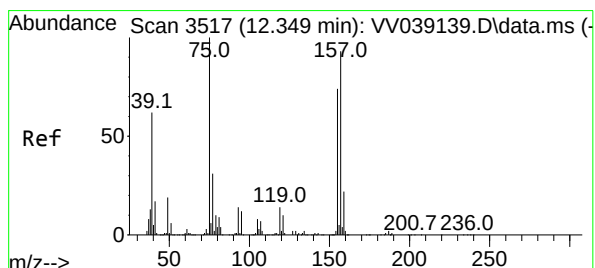
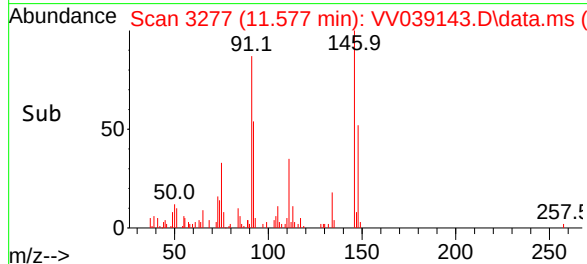
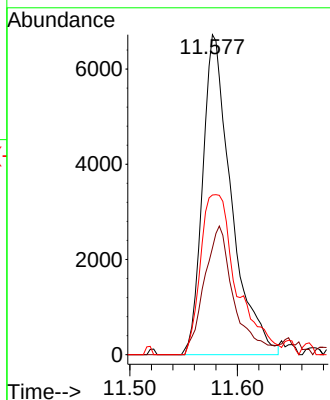
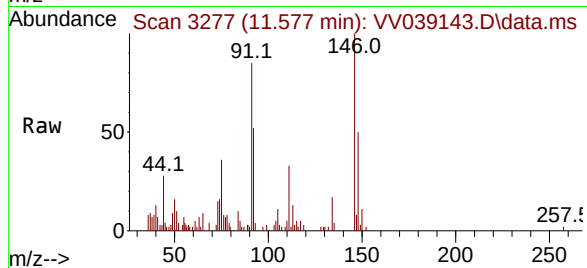
#91
1,2-Dichlorobenzene
Concen: 1.088 ug/l
RT: 11.577 min Scan# 31
Delta R.T. 0.010 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

Tgt Ion:146 Resp: 1248
Ion Ratio Lower Upper
146 100
111 41.4 21.5 64.5
148 63.0 31.9 95.7

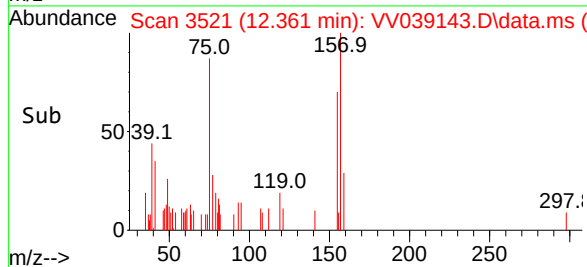
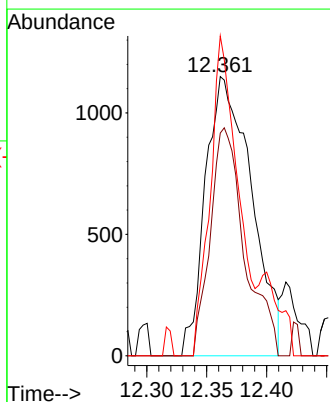
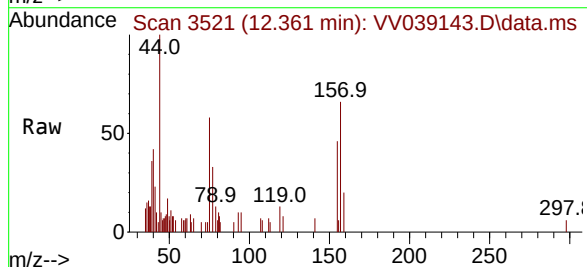
Manual Integrations
APPROVED

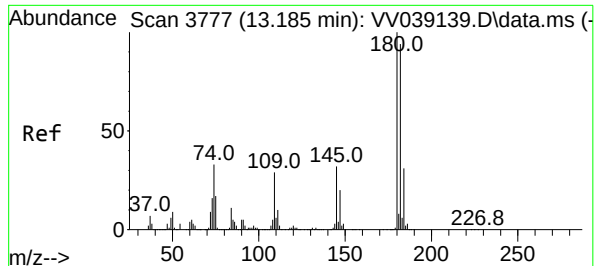
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 0.690 ug/l
RT: 12.361 min Scan# 3521
Delta R.T. 0.012 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 75 Resp: 3071
Ion Ratio Lower Upper
75 100
155 60.9 38.6 115.8
157 68.7 49.5 148.3





#93

1,2,4-Trichlorobenzene

Concen: 1.008 ug/l

RT: 13.197 min Scan# 3777

Delta R.T. 0.012 min

Lab File: VV039143.D

Acq: 22 Sep 2025 16:35

Instrument :

MSVOA_V

ClientSampleId :

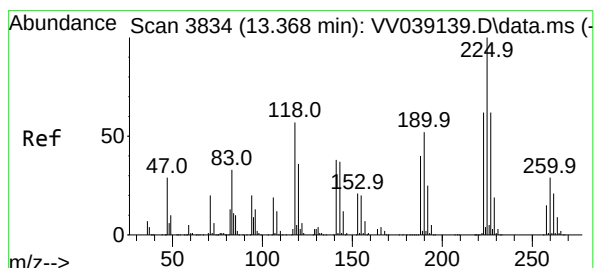
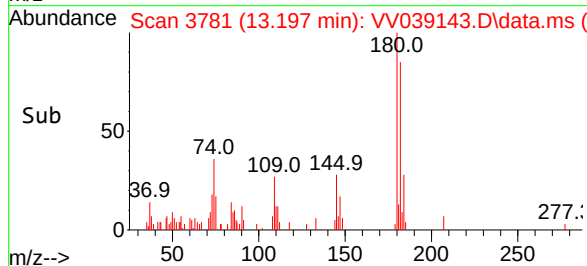
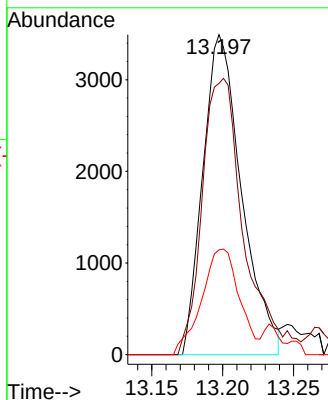
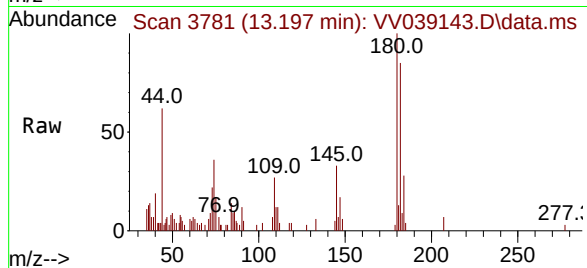
VSTDIC001

Tgt Ion:	180	Resp:	663
Ion Ratio	Lower	Upper	
180	100		
182	92.8	47.1	141.4
145	32.5	16.3	48.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#94

Hexachlorobutadiene

Concen: 1.288 ug/l

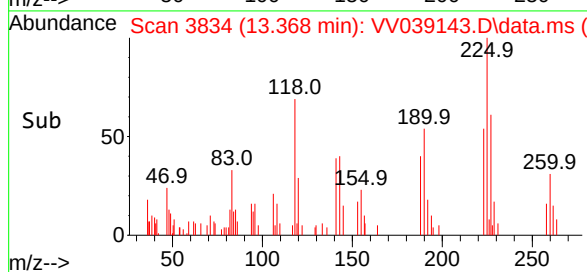
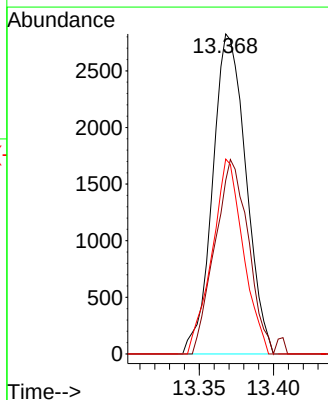
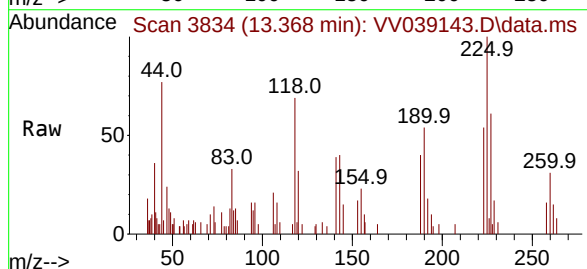
RT: 13.368 min Scan# 3834

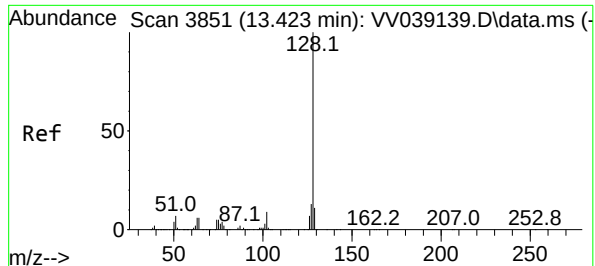
Delta R.T. -0.000 min

Lab File: VV039143.D

Acq: 22 Sep 2025 16:35

Tgt Ion:	225	Resp:	4406
Ion Ratio	Lower	Upper	
225	100		
223	61.1	31.6	94.7
227	57.1	31.8	95.4





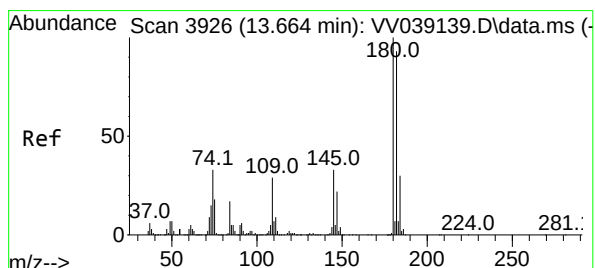
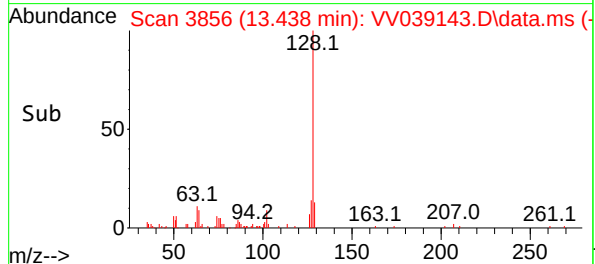
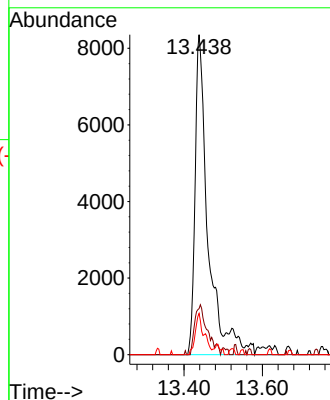
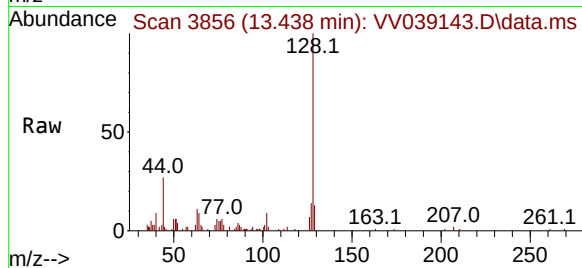
#95
Naphthalene
Concen: 0.931 ug/l m
RT: 13.438 min Scan# 3930
Delta R.T. 0.015 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

Tgt Ion	Ratio	Lower	Upper
128	100		
127	0.6	10.3	15.5
129	0.6	8.6	13.0

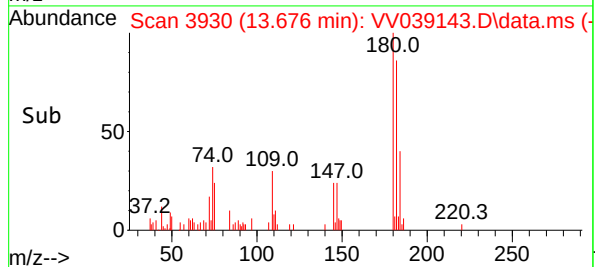
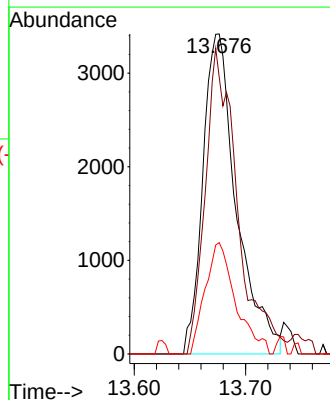
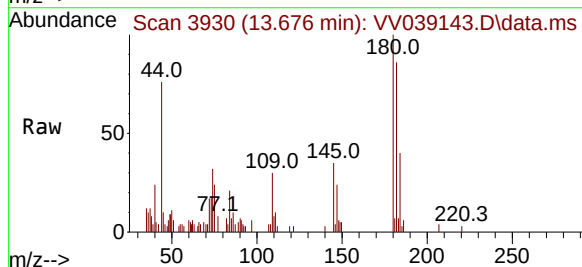
Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#96
1,2,3-Trichlorobenzene
Concen: 1.067 ug/l
RT: 13.676 min Scan# 3930
Delta R.T. 0.013 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion	Ratio	Lower	Upper
180	100		
182	91.3	46.9	140.8
145	31.6	17.0	51.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
 Data File : VV039144.D
 Acq On : 22 Sep 2025 16:58
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 ICVV092225

Quant Time: Sep 24 08:10:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 24 08:08:08 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
 Supervised By :Semsettin Yesilyurt 09/26/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	4.600	168	530687	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	821122	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	811351	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	500088	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.940	65	368982	48.041	ug/l	0.00
Spiked Amount	50.000	Range	81 - 118	Recovery	=	96.080%
35) Dibromofluoromethane	4.500	113	335549	50.832	ug/l	0.00
Spiked Amount	50.000	Range	80 - 119	Recovery	=	101.660%
50) Toluene-d8	7.236	98	1012009	52.199	ug/l	0.00
Spiked Amount	50.000	Range	89 - 112	Recovery	=	104.400%
62) 4-Bromofluorobenzene	10.001	95	453523	56.823	ug/l	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	=	113.640%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.121	85	380034	45.238	ug/l	98
3) Chloromethane	1.230	50	419560	46.523	ug/l	99
4) Vinyl Chloride	1.298	62	438971	45.467	ug/l	100
5) Bromomethane	1.494	94	274408	45.085	ug/l	100
6) Chloroethane	1.558	64	288768	50.873	ug/l	97
7) Trichlorofluoromethane	1.725	101	649327	46.452	ug/l	98
8) Diethyl Ether	1.918	74	239410	46.136	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.082	101	386460	46.465	ug/l	98
10) Methyl Iodide	2.198	142	394299	49.783	ug/l	100
11) Tert butyl alcohol	2.571	59	409358	252.173	ug/l	99
12) 1,1-Dichloroethene	2.082	96	367440	45.922	ug/l	99
13) Acrolein	2.011	56	76596	271.925	ug/l	95
14) Allyl chloride	2.359	41	673070	47.092	ug/l	100
15) Acrylonitrile	2.674	53	1247029	239.637	ug/l	100
16) Acetone	2.117	43	1131047	237.325	ug/l	99
17) Carbon Disulfide	2.252	76	1114937	45.563	ug/l	99
18) Methyl Acetate	2.381	43	564211	49.579	ug/l	99
19) Methyl tert-butyl Ether	2.712	73	1204021	47.223	ug/l	100
20) Methylene Chloride	2.458	84	426790	51.536	ug/l	99
21) trans-1,2-Dichloroethene	2.703	96	391103	45.915	ug/l	100
22) Diisopropyl ether	3.217	45	1355158	49.556	ug/l	95
23) Vinyl Acetate	3.188	43	5946893	248.597	ug/l	100
24) 1,1-Dichloroethane	3.117	63	761495	45.536	ug/l	100
25) 2-Butanone	3.867	43	1611713	262.050	ug/l	99
26) 2,2-Dichloropropane	3.812	77	648277	43.721	ug/l	99
27) cis-1,2-Dichloroethene	3.818	96	459958	48.960	ug/l	99
28) Bromochloromethane	4.146	49	384995	52.149	ug/l	100
29) Tetrahydrofuran	4.236	42	1064545	276.528	ug/l	99
30) Chloroform	4.278	83	820367	46.980	ug/l	99
31) Cyclohexane	4.584	56	654806	47.799	ug/l	99
32) 1,1,1-Trichloroethane	4.513	97	709351	46.922	ug/l	99
36) 1,1-Dichloropropene	4.744	75	537027	53.809	ug/l	99
37) Ethyl Acetate	3.976	43	630342	52.050	ug/l	99
38) Carbon Tetrachloride	4.735	117	603187	49.452	ug/l	99
39) Methylcyclohexane	6.047	83	692131	57.426	ug/l	98
40) Benzene	5.008	78	1699505	52.293	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
 Data File : VV039144.D
 Acq On : 22 Sep 2025 16:58
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :

MSVOA_V

ClientSampleId :

ICVVV092225

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025

Supervised By :Semsettin Yesilyurt 09/26/2025

Quant Time: Sep 24 08:10:27 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M

Quant Title : SW846 8260

QLast Update : Wed Sep 24 08:08:08 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.159	41	282895	51.602	ug/l	99
42) 1,2-Dichloroethane	5.040	62	583550	51.245	ug/l	99
43) Isopropyl Acetate	5.194	43	924654	55.998	ug/l	99
44) Trichloroethene	5.831	130	384092	51.216	ug/l	95
45) 1,2-Dichloropropane	6.088	63	440211	54.495	ug/l	97
46) Dibromomethane	6.223	93	316032	51.116	ug/l	97
47) Bromodichloromethane	6.426	83	654836	51.232	ug/l	99
48) Methyl methacrylate	6.297	41	442395	59.104	ug/l	98
49) 1,4-Dioxane	6.291	88	136899	1133.346	ug/l	99
51) 4-Methyl-2-Pentanone	7.149	43	3292794	303.119	ug/l	100
52) Toluene	7.307	92	1064972	56.517	ug/l	99
53) t-1,3-Dichloropropene	7.574	75	621814	55.823	ug/l	99
54) cis-1,3-Dichloropropene	6.947	75	690532	56.154	ug/l	98
55) 1,1,2-Trichloroethane	7.760	97	432856	51.231	ug/l	99
56) Ethyl methacrylate	7.715	69	610159	60.810	ug/l	99
57) 1,3-Dichloropropane	7.934	76	716955	53.769	ug/l	100
58) 2-Chloroethyl Vinyl ether	6.812	63	1474938	259.936	ug/l	99
59) 2-Hexanone	8.063	43	2462493	280.545	ug/l	100
60) Dibromochloromethane	8.169	129	499908	51.926	ug/l	99
61) 1,2-Dibromoethane	8.272	107	460510	53.295	ug/l	100
64) Tetrachloroethene	7.895	164	346271	50.954	ug/l	99
65) Chlorobenzene	8.802	112	1153503	51.041	ug/l	99
66) 1,1,1,2-Tetrachloroethane	8.899	131	409401	50.136	ug/l	100
67) Ethyl Benzene	8.937	91	1964943	57.438	ug/l	100
68) m/p-Xylenes	9.062	106	1592118	120.582	ug/l	100
69) o-Xylene	9.468	106	706301	60.414	ug/l	98
70) Styrene	9.484	104	1306032	52.671	ug/l	99
71) Bromoform	9.654	173	335410	52.585	ug/l #	98
73) Isopropylbenzene	9.857	105	1966280	54.210	ug/l	100
74) N-amyl acetate	9.725	43	841099	58.135	ug/l	99
75) 1,1,2,2-Tetrachloroethane	10.165	83	724860	45.610	ug/l	100
76) 1,2,3-Trichloropropane	10.197	75	563785m	49.515	ug/l	
77) Bromobenzene	10.140	156	462931	49.193	ug/l	99
78) n-propylbenzene	10.278	91	2444658	55.347	ug/l	99
79) 2-Chlorotoluene	10.349	91	1412046	53.426	ug/l	99
80) 1,3,5-Trimethylbenzene	10.464	105	1709353	56.698	ug/l	99
81) trans-1,4-Dichloro-2-b...	9.927	75	247871	52.262	ug/l	99
82) 4-Chlorotoluene	10.461	91	1680201	54.824	ug/l	100
83) tert-Butylbenzene	10.789	119	1610870	53.584	ug/l	100
84) 1,2,4-Trimethylbenzene	10.837	105	1695994	57.944	ug/l	100
85) sec-Butylbenzene	11.011	105	2189540	54.911	ug/l	100
86) p-Isopropyltoluene	11.165	119	1841747	55.495	ug/l	100
87) 1,3-Dichlorobenzene	11.104	146	939483	49.328	ug/l	99
88) 1,4-Dichlorobenzene	11.194	146	971665	46.502	ug/l	99
89) n-Butylbenzene	11.580	91	1798412	56.740	ug/l	100
90) Hexachloroethane	11.818	117	370188	45.296	ug/l	98
91) 1,2-Dichlorobenzene	11.567	146	878347	49.362	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.349	75	150399	52.479	ug/l	98
93) 1,2,4-Trichlorobenzene	13.185	180	533045	52.259	ug/l	99
94) Hexachlorobutadiene	13.368	225	243496	45.942	ug/l	99
95) Naphthalene	13.422	128	1919772	58.231	ug/l	100
96) 1,2,3-Trichlorobenzene	13.667	180	549079	52.633	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039144.D
Acq On : 22 Sep 2025 16:58
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

Quant Time: Sep 24 08:10:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

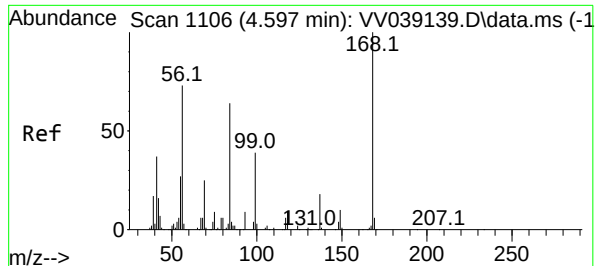
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_V
ClientSampleId :
ICVV092225

Manual Integrations

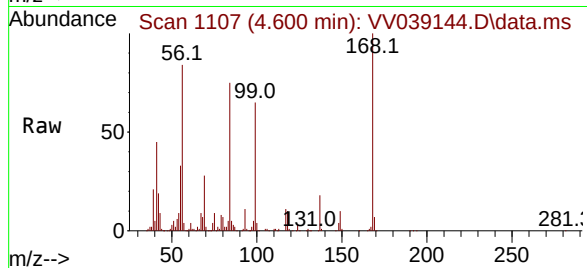
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 1107
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

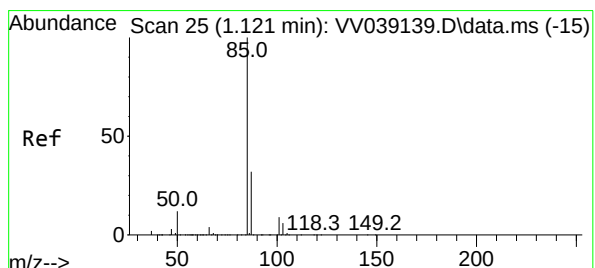
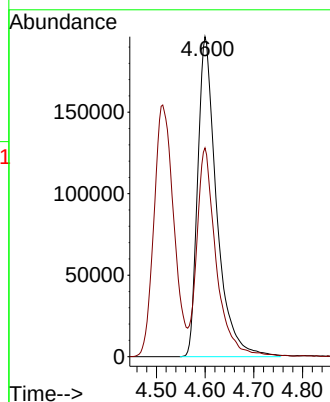
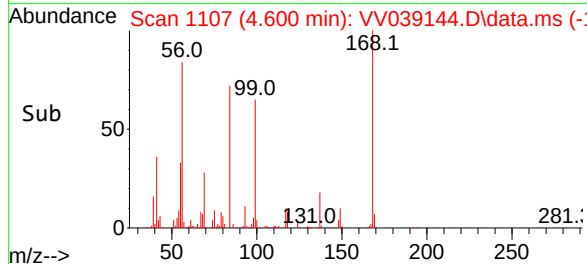
Instrument :
MSVOA_V
ClientSampleId :
ICVV092225



Tgt Ion:168 Resp: 53068
Ion Ratio Lower Upper
168 100
99 64.8 49.6 74.4

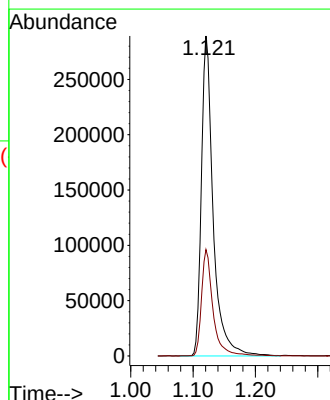
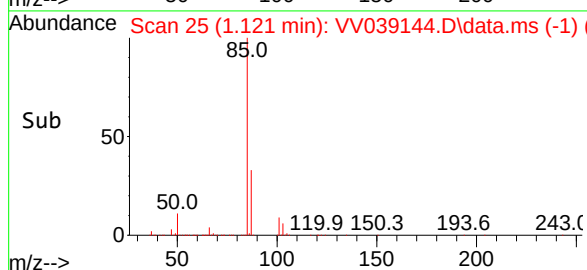
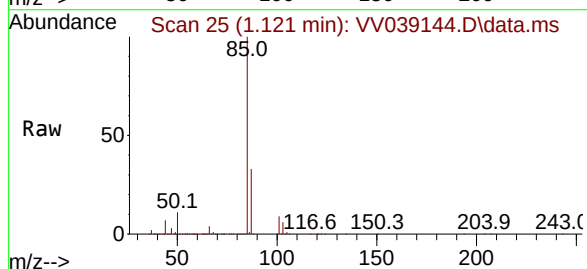
Manual Integrations
APPROVED

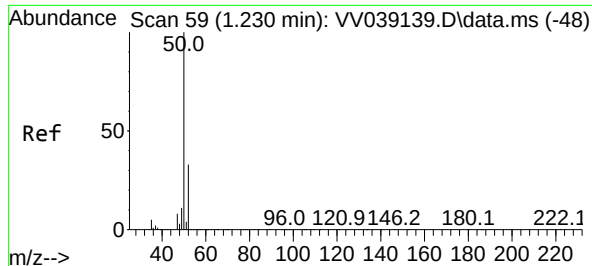
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#2
Dichlorodifluoromethane
Concen: 45.238 ug/l
RT: 1.121 min Scan# 25
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

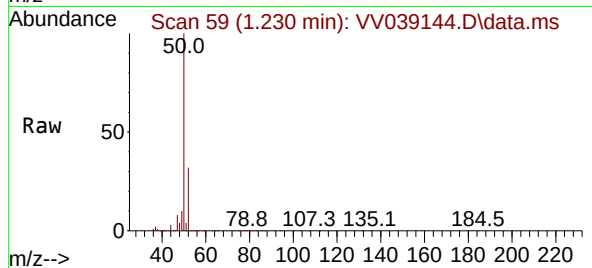
Tgt Ion: 85 Resp: 380034
Ion Ratio Lower Upper
85 100
87 33.2 16.0 47.9





#3
Chloromethane
Concen: 46.523 ug/l
RT: 1.230 min Scan# 59
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

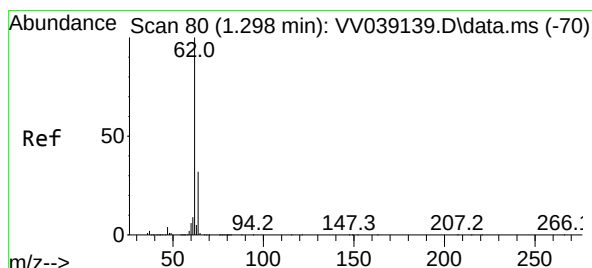
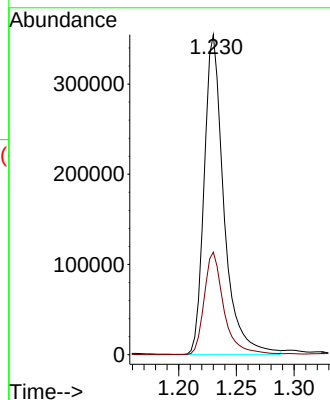
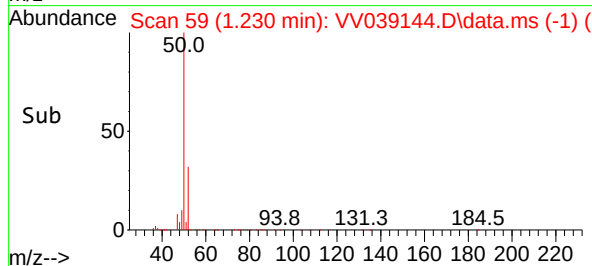
Instrument :
MSVOA_V
ClientSampleId :
ICVV092225



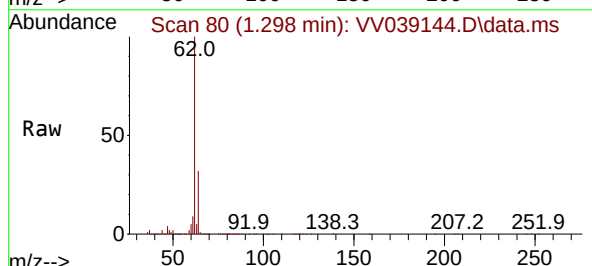
Tgt Ion: 50 Resp: 419560
Ion Ratio Lower Upper
50 100
52 32.0 26.0 39.0

Manual Integrations
APPROVED

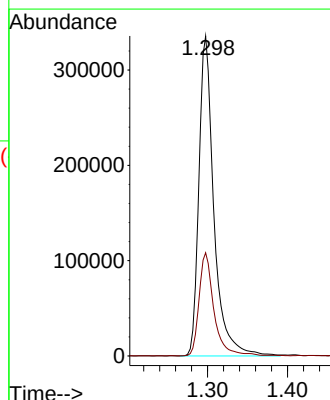
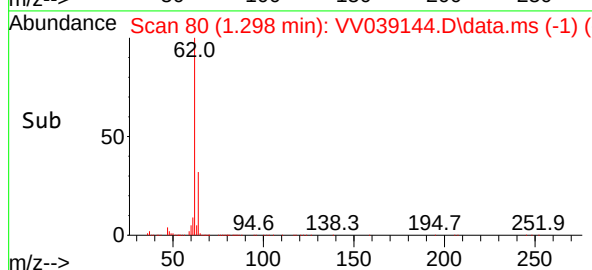
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

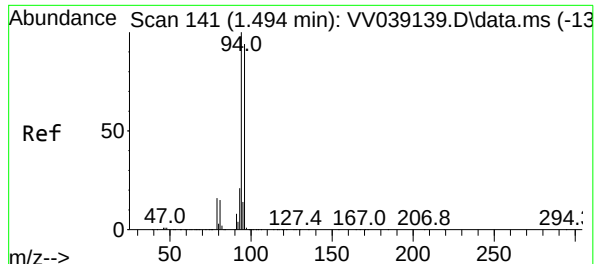


#4
Vinyl Chloride
Concen: 45.467 ug/l
RT: 1.298 min Scan# 80
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58



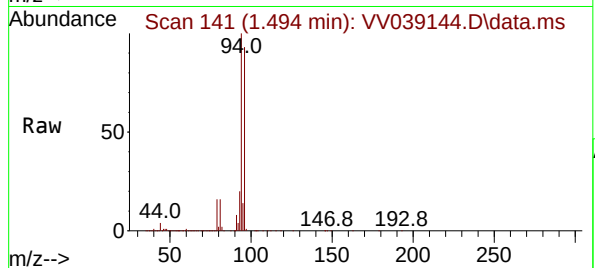
Tgt Ion: 62 Resp: 438971
Ion Ratio Lower Upper
62 100
64 32.2 25.6 38.4





#5
Bromomethane
Concen: 45.085 ug/l
RT: 1.494 min Scan# 141
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

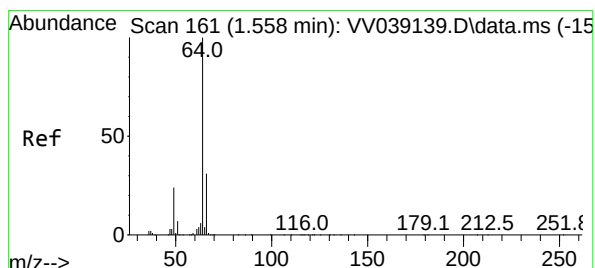
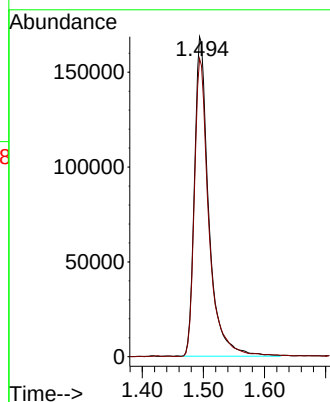
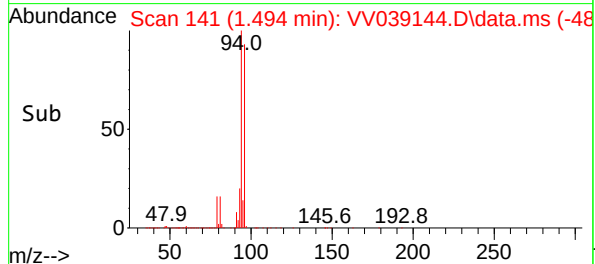
Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225



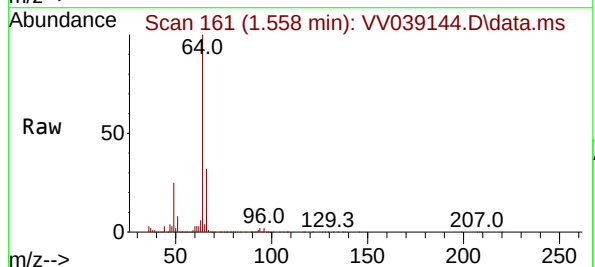
Tgt Ion: 94 Resp: 274408
Ion Ratio Lower Upper
94 100
96 93.2 74.9 112.3

Manual Integrations
APPROVED

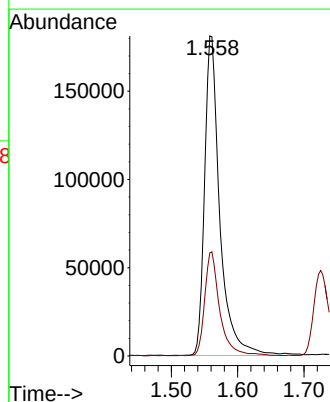
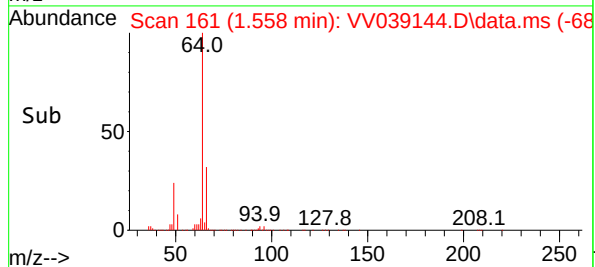
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

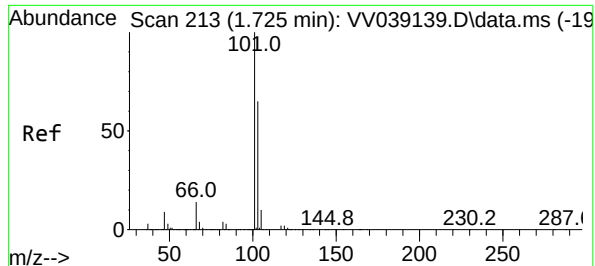


#6
Chloroethane
Concen: 50.873 ug/l
RT: 1.558 min Scan# 161
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58



Tgt Ion: 64 Resp: 288768
Ion Ratio Lower Upper
64 100
66 32.1 24.6 36.8





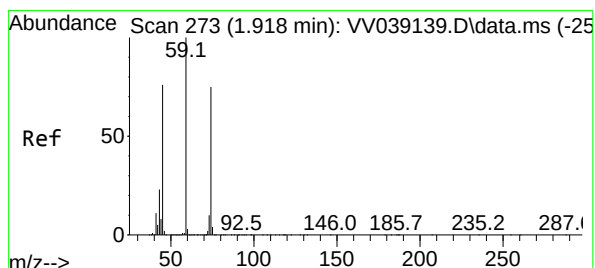
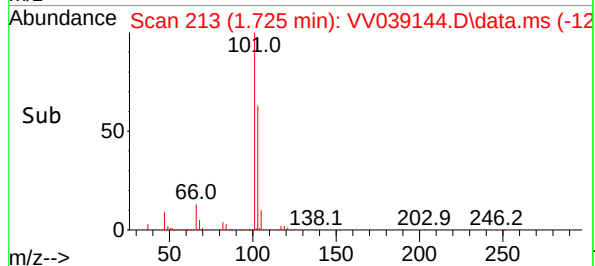
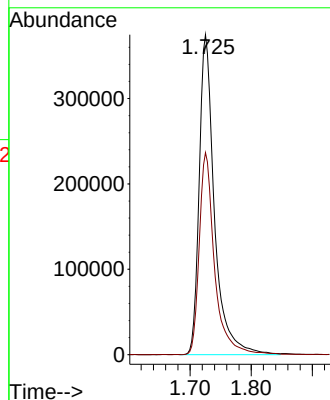
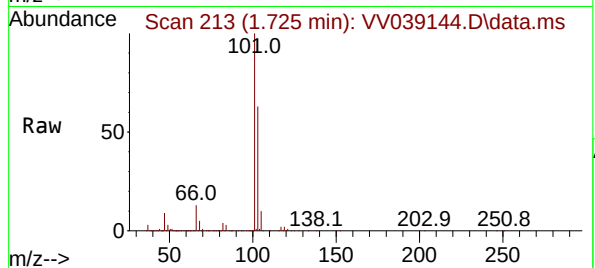
#7
Trichlorofluoromethane
Concen: 46.452 ug/l
RT: 1.725 min Scan# 213
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Instrument :
MSVOA_V
ClientSampleId :
ICVV092225

Tgt Ion:101 Resp: 64932
Ion Ratio Lower Upper
101 100
103 63.1 52.0 78.0

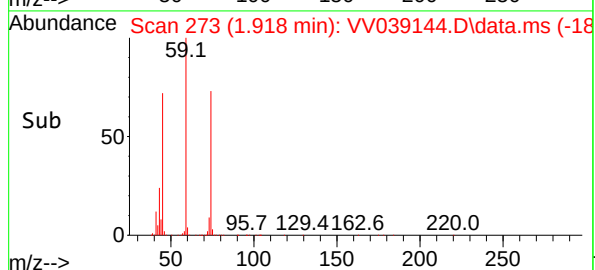
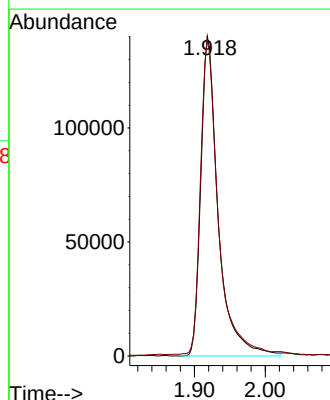
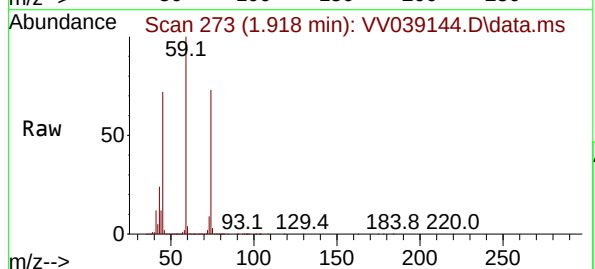
Manual Integrations
APPROVED

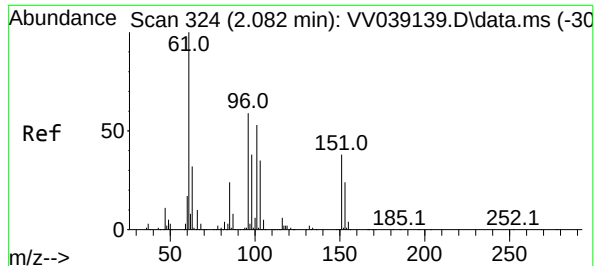
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#8
Diethyl Ether
Concen: 46.136 ug/l
RT: 1.918 min Scan# 273
Delta R.T. 0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 74 Resp: 239410
Ion Ratio Lower Upper
74 100
45 98.9 49.6 148.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 46.465 ug/l

RT: 2.082 min Scan# 31

Delta R.T. -0.000 min

Lab File: VV039144.D

Acq: 22 Sep 2025 16:58

Instrument :

MSVOA_V

ClientSampleId :

ICVV092225

Tgt Ion:101 Resp: 386460

Ion Ratio Lower Upper

101 100

85 44.1 36.2 54.2

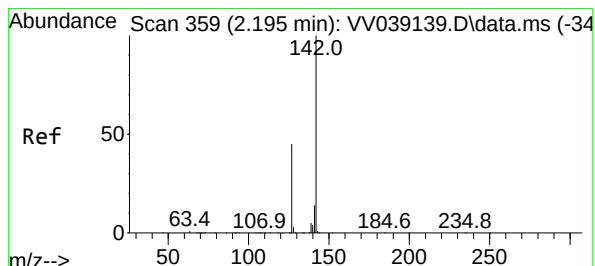
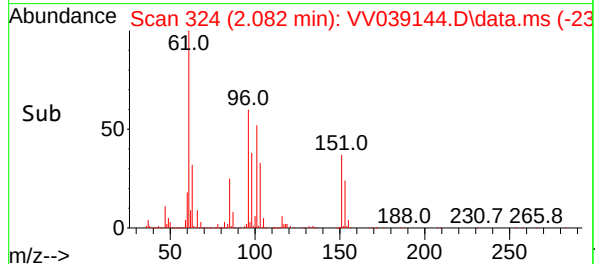
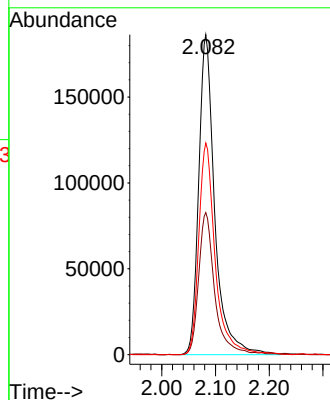
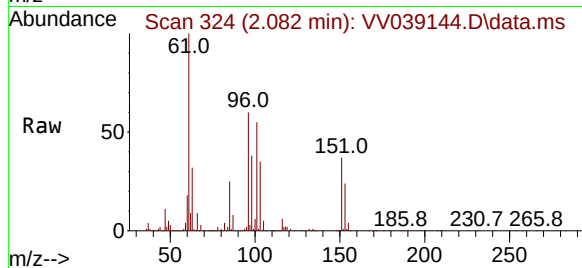
151 68.0 56.3 84.5

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025

Supervised By :Semsettin Yesilyurt 09/26/2025



#10

Methyl Iodide

Concen: 49.783 ug/l

RT: 2.198 min Scan# 360

Delta R.T. 0.003 min

Lab File: VV039144.D

Acq: 22 Sep 2025 16:58

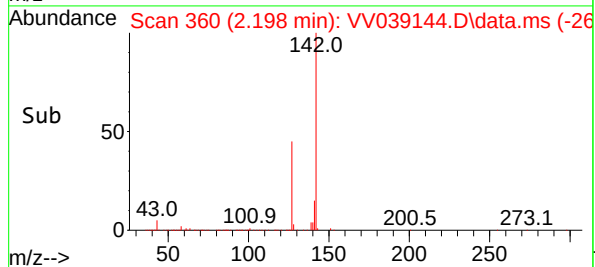
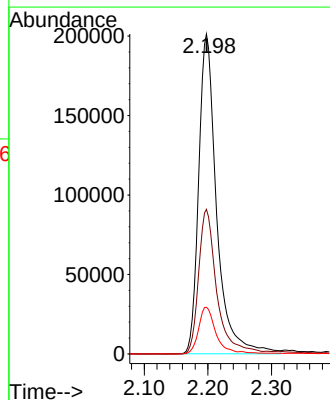
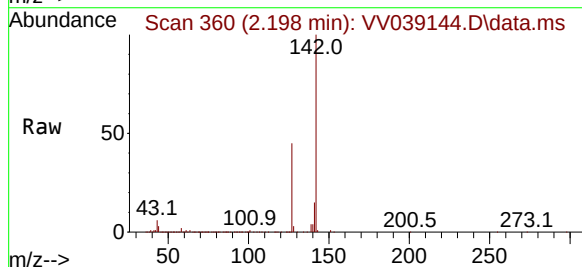
Tgt Ion:142 Resp: 394299

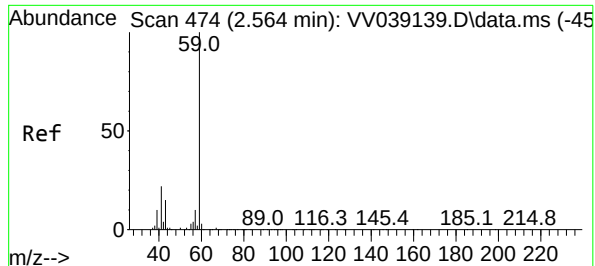
Ion Ratio Lower Upper

142 100

127 45.7 36.3 54.5

141 13.8 11.2 16.8





#11

Tert butyl alcohol

Concen: 252.173 ug/l

RT: 2.571 min Scan# 41

Delta R.T. 0.006 min

Lab File: VV039144.D

Acq: 22 Sep 2025 16:58

Instrument :

MSVOA_V

ClientSampleId :

ICVV092225

Tgt Ion: 59 Resp: 40935

Ion Ratio Lower Upper

59 100

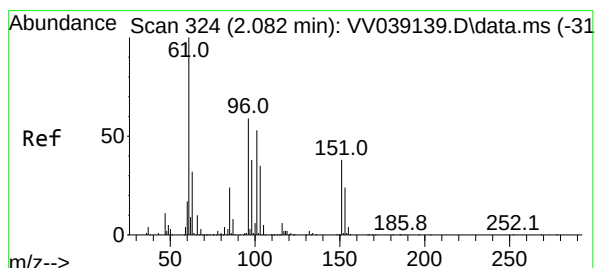
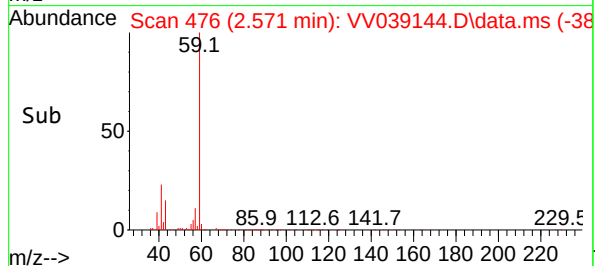
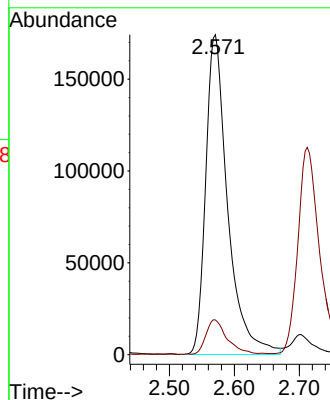
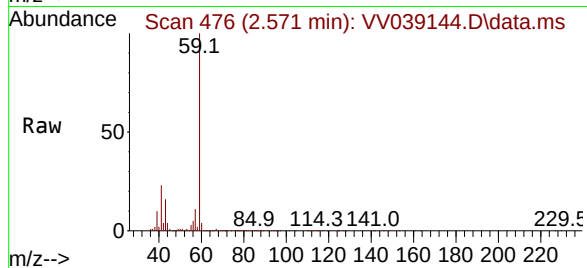
57 10.3 7.8 11.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025

Supervised By :Semsettin Yesilyurt 09/26/2025



#12

1,1-Dichloroethene

Concen: 45.922 ug/l

RT: 2.082 min Scan# 324

Delta R.T. -0.000 min

Lab File: VV039144.D

Acq: 22 Sep 2025 16:58

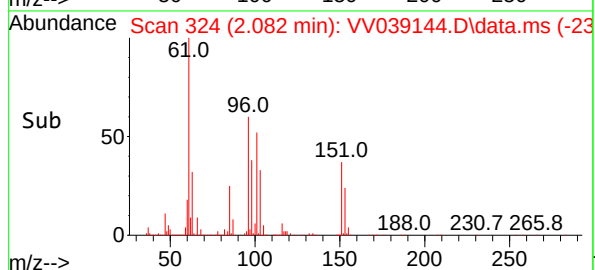
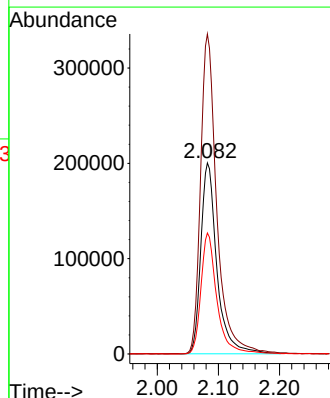
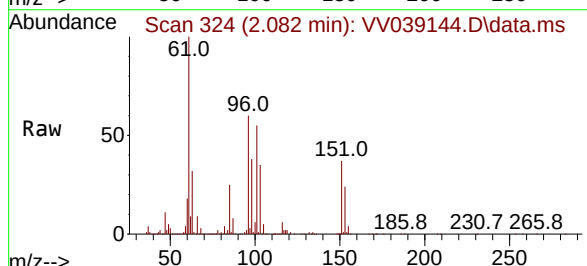
Tgt Ion: 96 Resp: 367440

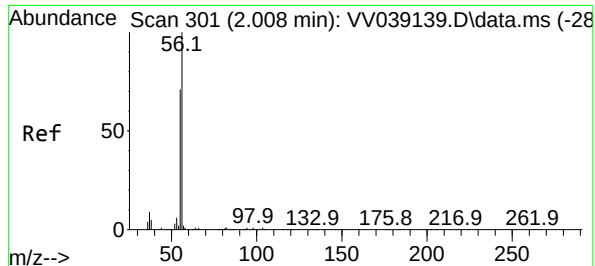
Ion Ratio Lower Upper

96 100

61 167.5 136.0 204.0

98 63.3 51.0 76.6





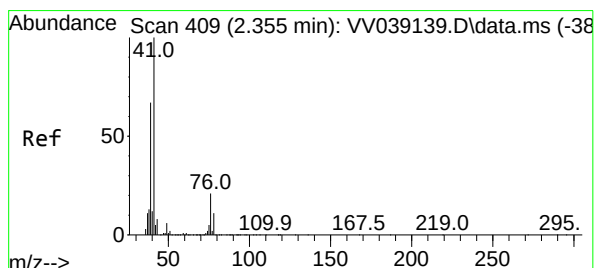
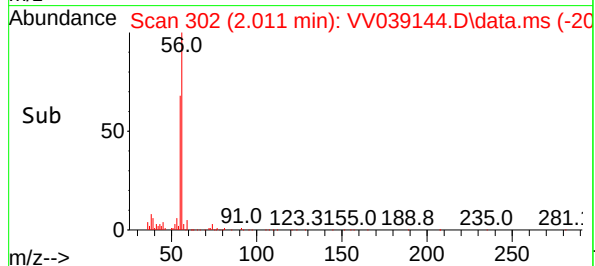
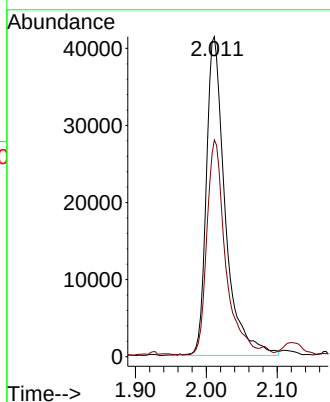
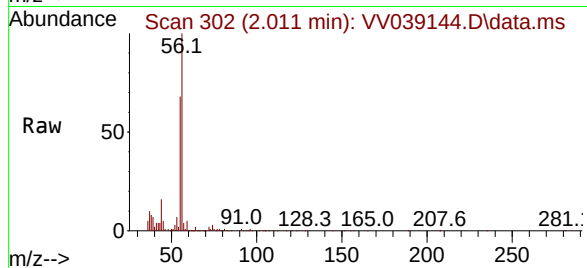
#13
Acrolein
Concen: 271.925 ug/l
RT: 2.011 min Scan# 301
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Instrument :
MSVOA_V
ClientSampleId :
ICVV092225

Tgt Ion: 56 Resp: 76590
Ion Ratio Lower Upper
56 100
55 66.3 56.2 84.4

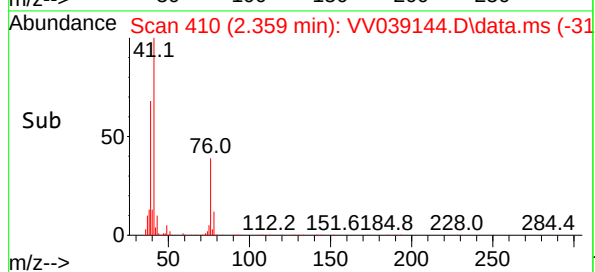
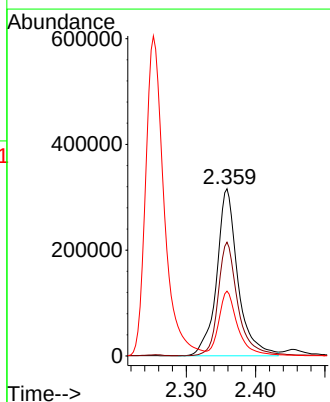
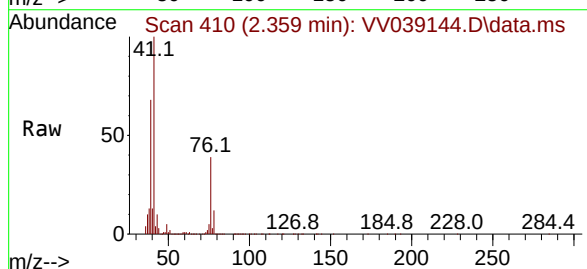
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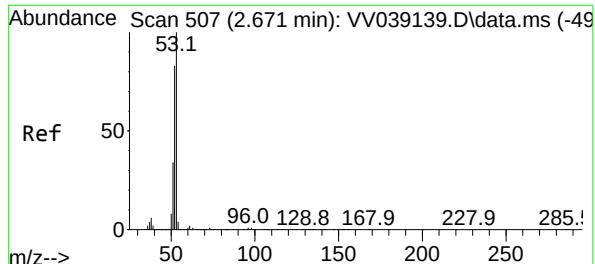
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#14
Allyl chloride
Concen: 47.092 ug/l
RT: 2.359 min Scan# 410
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 41 Resp: 673070
Ion Ratio Lower Upper
41 100
39 63.6 51.0 76.6
76 34.9 28.2 42.4





#15

Acrylonitrile

Concen: 239.637 ug/l

RT: 2.674 min Scan# 507

Delta R.T. 0.003 min

Lab File: VV039144.D

Acq: 22 Sep 2025 16:58

Instrument :

MSVOA_V

ClientSampleId :

ICVV092225

Tgt Ion: 53 Resp: 1247029

Ion Ratio Lower Upper

53 100

52 82.2 66.1 99.1

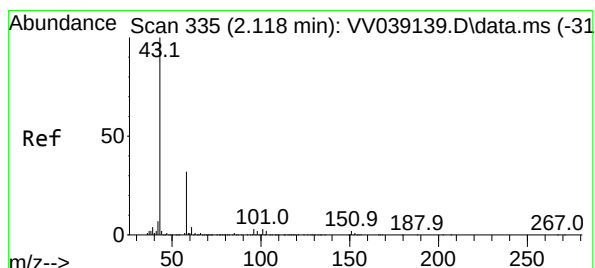
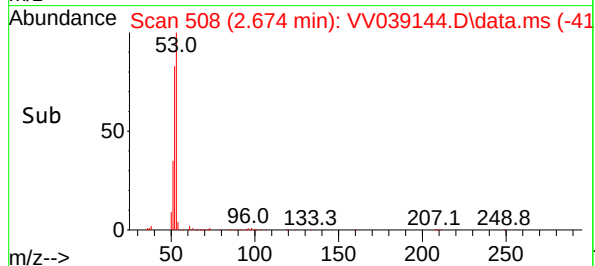
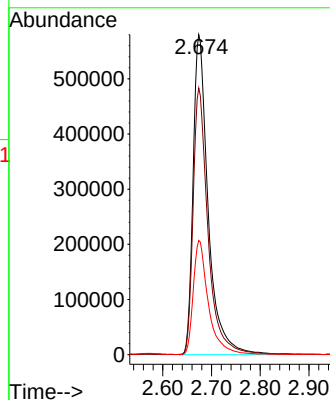
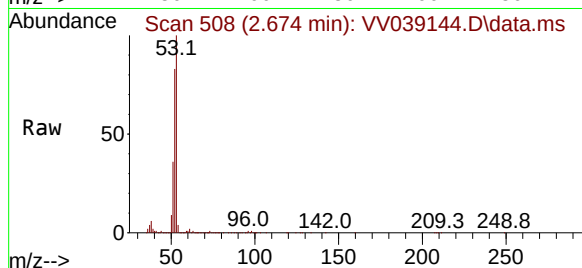
51 35.7 28.5 42.7

Manual Integrations

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Reviewed By :Mahesh Dadoda 09/26/2025

Supervised By :Semsettin Yesilyurt 09/26/2025



#16

Acetone

Concen: 237.325 ug/l

RT: 2.117 min Scan# 335

Delta R.T. -0.001 min

Lab File: VV039144.D

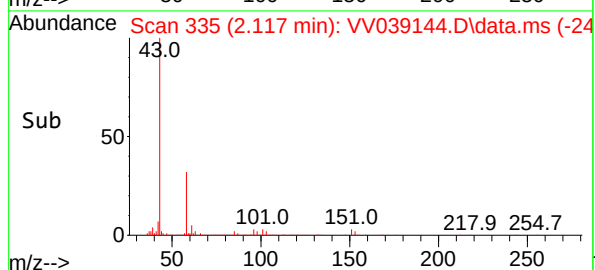
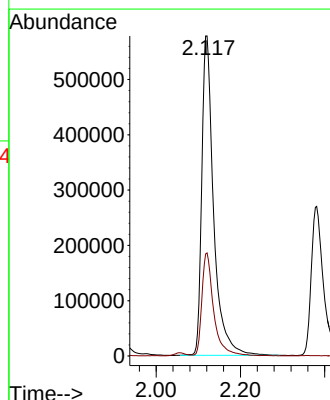
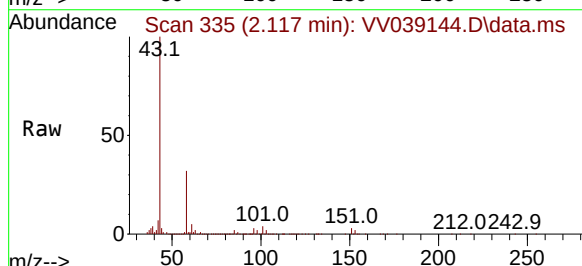
Acq: 22 Sep 2025 16:58

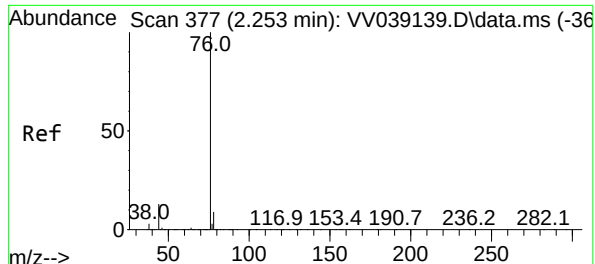
Tgt Ion: 43 Resp: 1131047

Ion Ratio Lower Upper

43 100

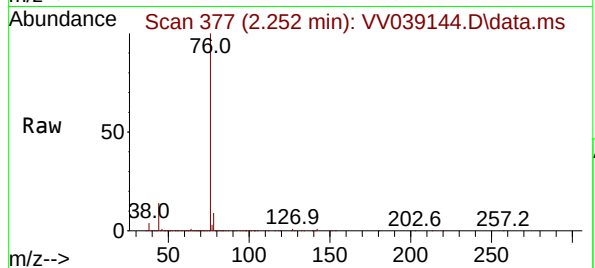
58 31.9 25.8 38.6





#17
Carbon Disulfide
Concen: 45.563 ug/l
RT: 2.252 min Scan# 311
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

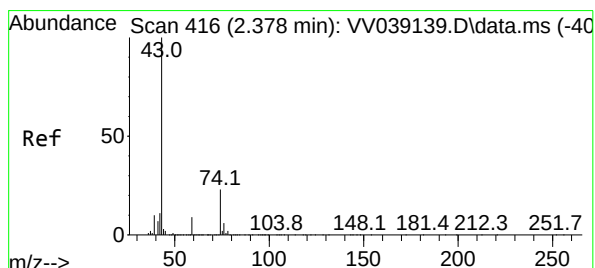
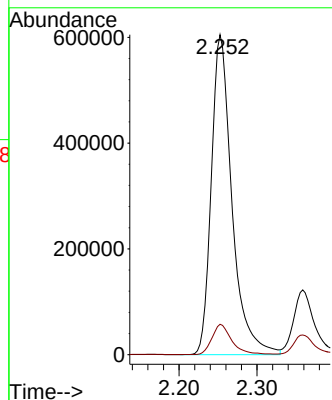
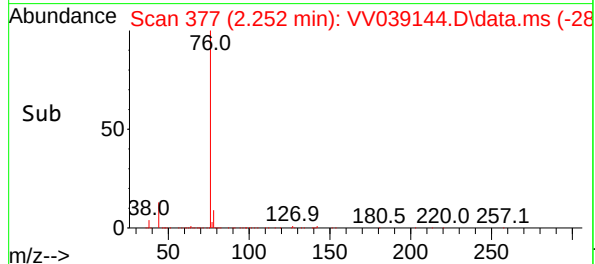
Instrument :
MSVOA_V
ClientSampleId :
ICVV092225



Tgt Ion: 76 Resp: 111493
Ion Ratio Lower Upper
76 100
78 9.5 7.4 11.0

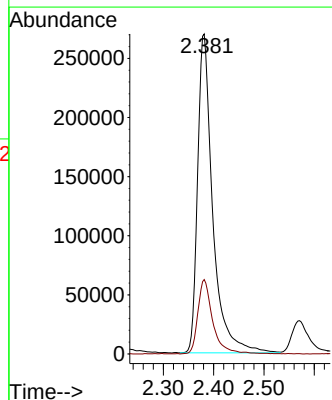
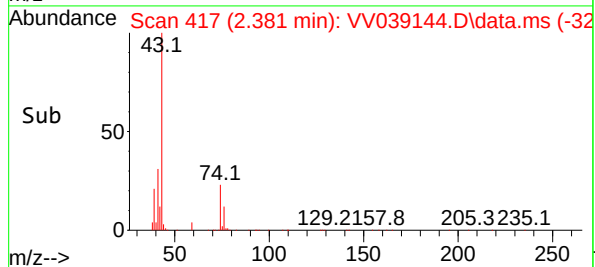
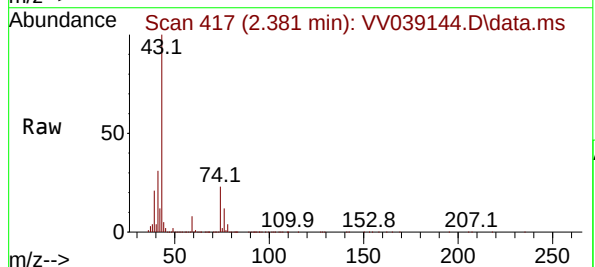
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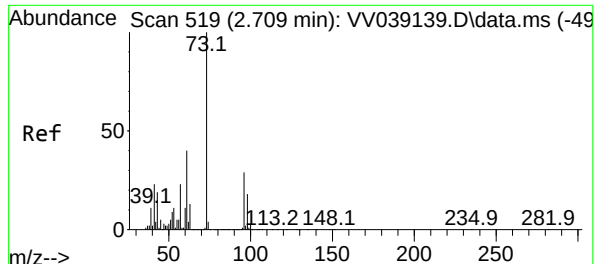
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#18
Methyl Acetate
Concen: 49.579 ug/l
RT: 2.381 min Scan# 417
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 43 Resp: 564211
Ion Ratio Lower Upper
43 100
74 22.6 18.6 27.8





#19

Methyl tert-butyl Ether

Concen: 47.223 ug/l

RT: 2.712 min Scan# 519

Delta R.T. 0.003 min

Lab File: VV039144.D

Acq: 22 Sep 2025 16:58

Instrument :

MSVOA_V

ClientSampleId :

ICVV092225

Tgt Ion: 73 Resp: 120402

Ion Ratio Lower Upper

73 100

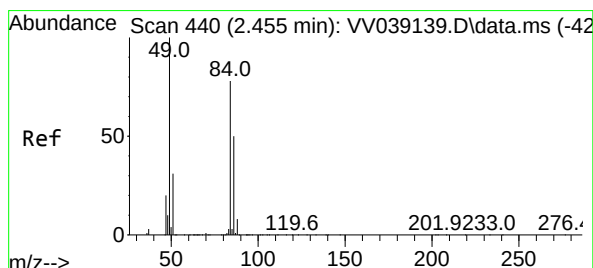
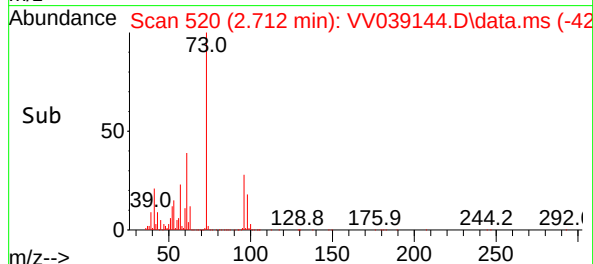
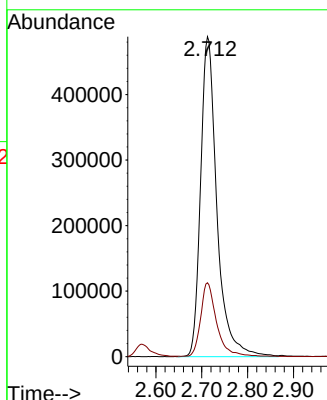
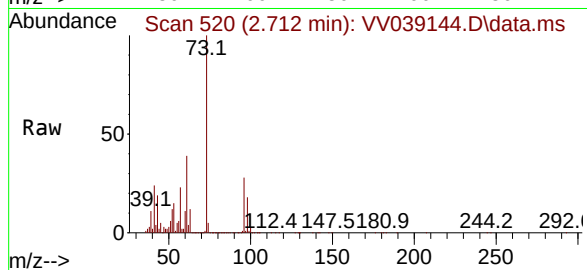
57 23.0 18.2 27.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025

Supervised By :Semsettin Yesilyurt 09/26/2025



#20

Methylene Chloride

Concen: 51.536 ug/l

RT: 2.458 min Scan# 441

Delta R.T. 0.003 min

Lab File: VV039144.D

Acq: 22 Sep 2025 16:58

Tgt Ion: 84 Resp: 426790

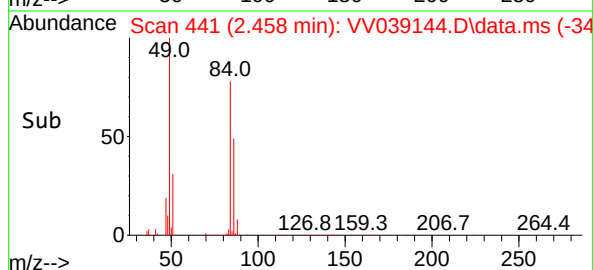
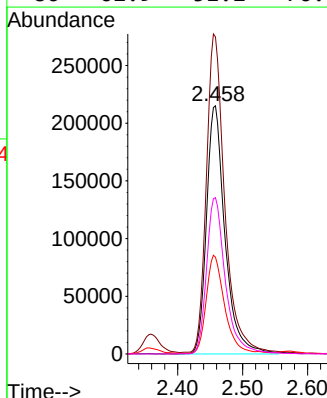
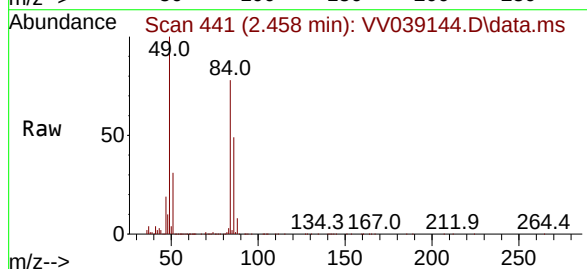
Ion Ratio Lower Upper

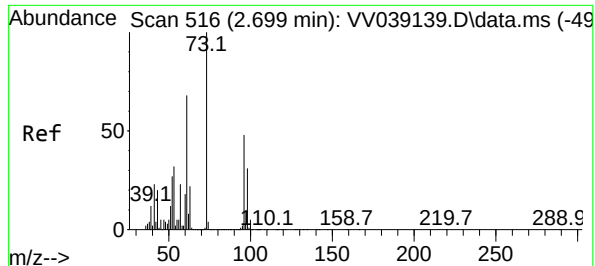
84 100

49 127.1 102.8 154.2

51 38.7 31.9 47.9

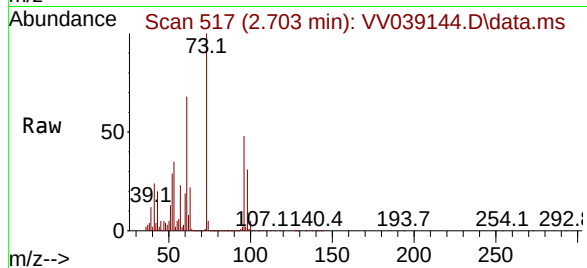
86 62.9 51.2 76.8





#21
trans-1,2-Dichloroethene
Concen: 45.915 ug/l
RT: 2.703 min Scan# 516
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

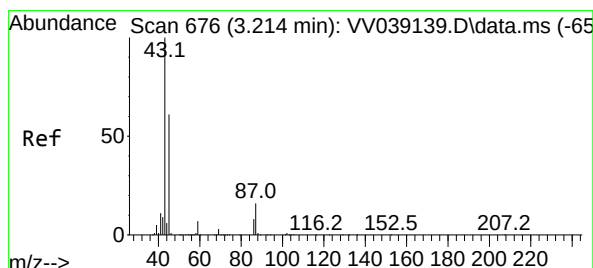
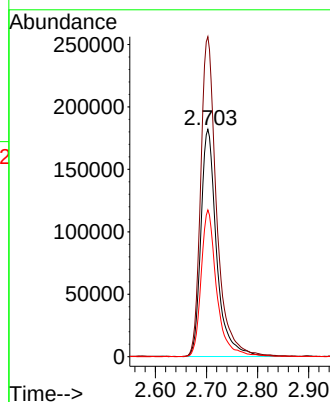
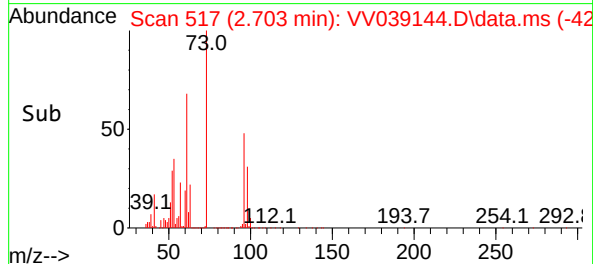
Instrument :
MSVOA_V
ClientSampleId :
ICVV092225



Tgt Ion: 96 Resp: 39110
Ion Ratio Lower Upper
96 100
61 140.9 112.8 169.2
98 64.6 51.1 76.7

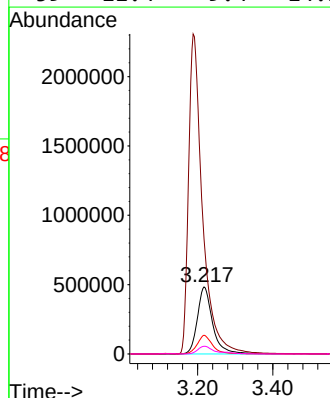
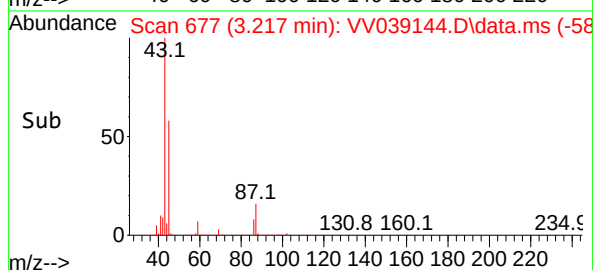
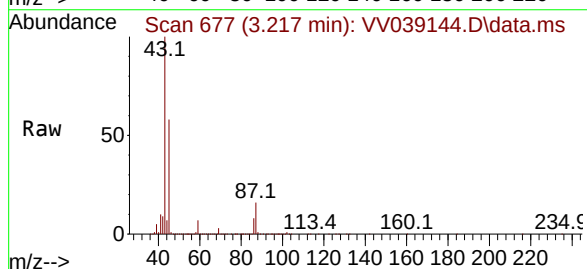
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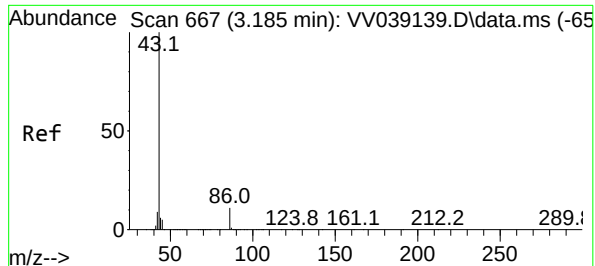
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#22
Diisopropyl ether
Concen: 49.556 ug/l
RT: 3.217 min Scan# 677
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 45 Resp: 1355158
Ion Ratio Lower Upper
45 100
43 170.9 130.9 196.3
87 27.9 21.1 31.7
59 11.4 9.4 14.2





#23

Vinyl Acetate

Concen: 248.597 ug/l

RT: 3.188 min Scan# 60

Delta R.T. 0.003 min

Lab File: VV039144.D

Acq: 22 Sep 2025 16:58

Instrument :

MSVOA_V

ClientSampleId :

ICVV092225

Tgt Ion: 43 Resp: 594689

Ion Ratio Lower Upper

43

100

86

10.7

8.4

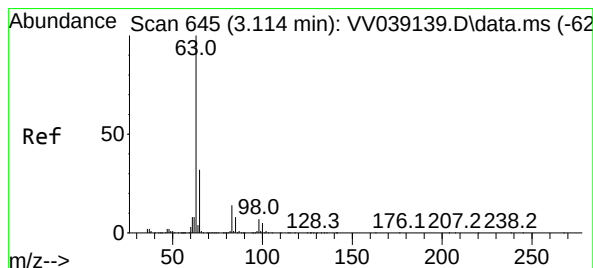
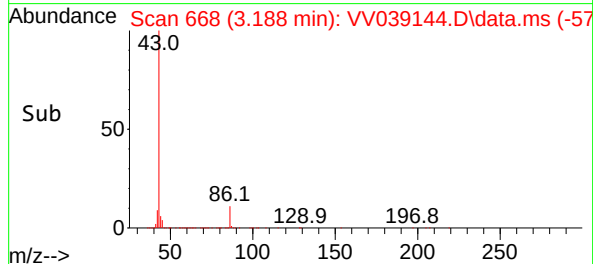
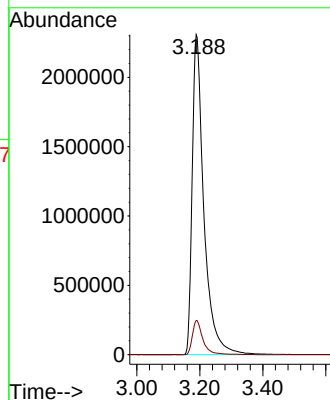
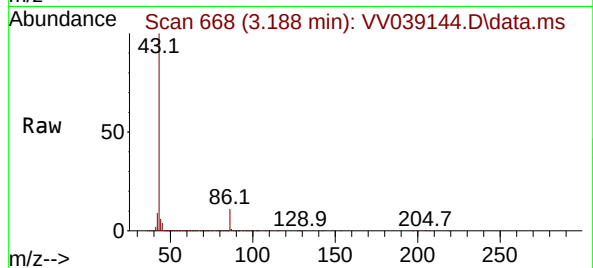
12.6

Manual Integrations

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Reviewed By :Mahesh Dadoda 09/26/2025

Supervised By :Semsettin Yesilyurt 09/26/2025



#24

1,1-Dichloroethane

Concen: 45.536 ug/l

RT: 3.117 min Scan# 646

Delta R.T. 0.003 min

Lab File: VV039144.D

Acq: 22 Sep 2025 16:58

Tgt Ion: 63 Resp: 761495

Ion Ratio Lower Upper

63

100

98

7.0

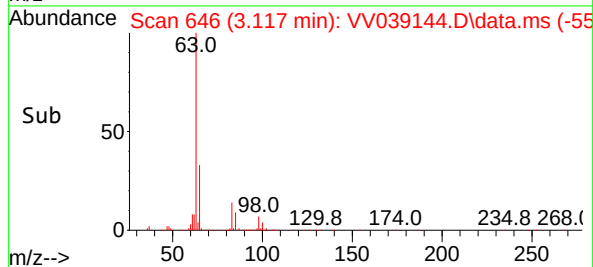
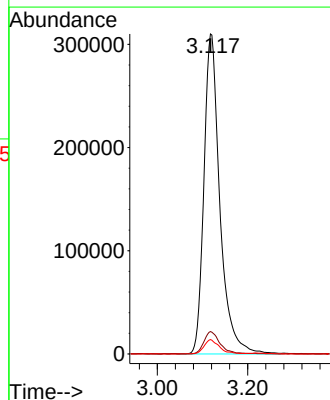
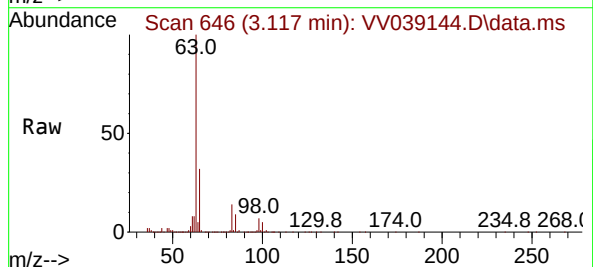
100

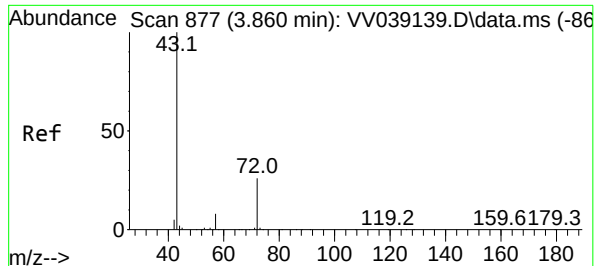
4.5

3.4

10.2

6.6





#25

2-Butanone

Concen: 262.050 ug/l

RT: 3.867 min Scan# 81

Delta R.T. 0.006 min

Lab File: VV039144.D

Acq: 22 Sep 2025 16:58

Instrument :

MSVOA_V

ClientSampleId :

ICVV092225

Tgt Ion: 43 Resp: 161171

Ion Ratio Lower Upper

43 100

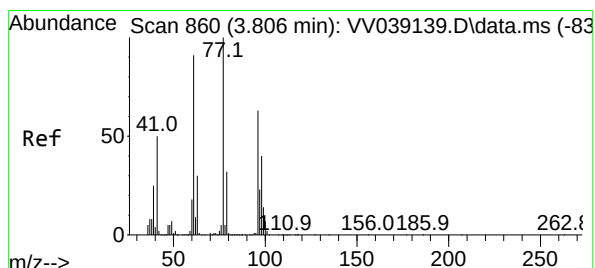
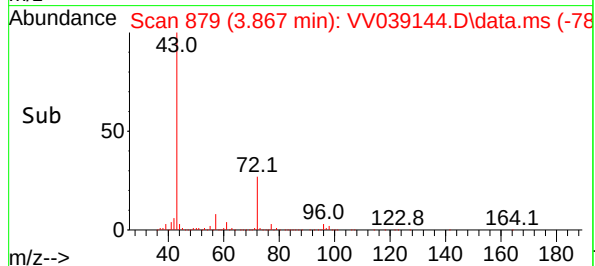
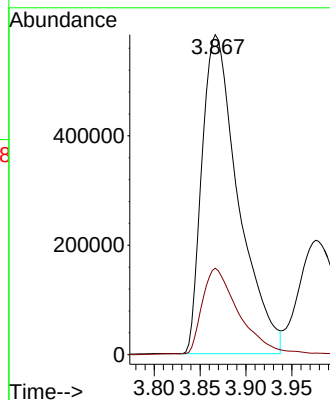
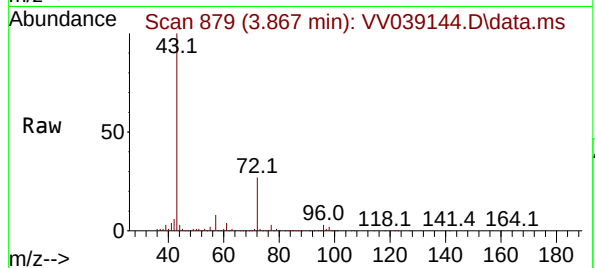
72 26.8 21.0 31.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025

Supervised By :Semsettin Yesilyurt 09/26/2025



#26

2,2-Dichloropropane

Concen: 43.721 ug/l

RT: 3.812 min Scan# 862

Delta R.T. 0.006 min

Lab File: VV039144.D

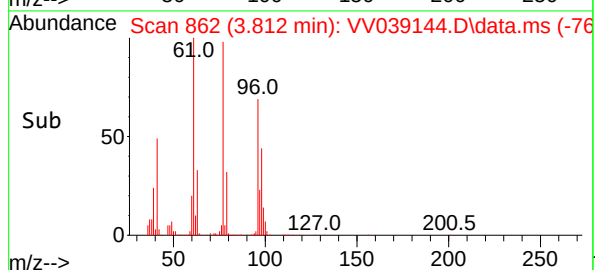
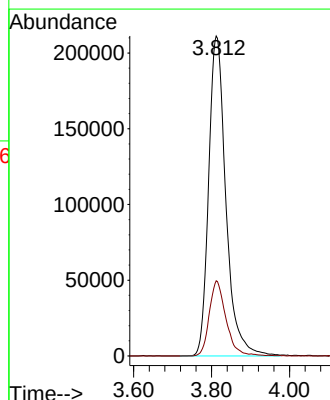
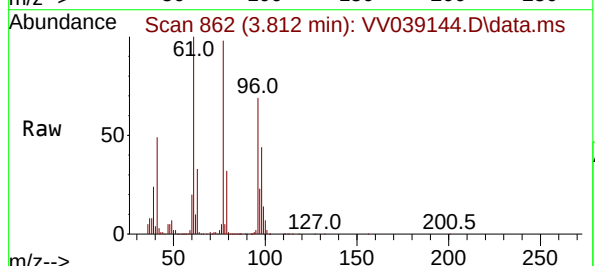
Acq: 22 Sep 2025 16:58

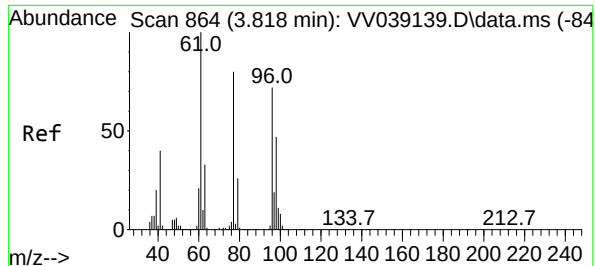
Tgt Ion: 77 Resp: 648277

Ion Ratio Lower Upper

77 100

97 22.5 11.6 34.7





#27

cis-1,2-Dichloroethene

Concen: 48.960 ug/l

RT: 3.818 min Scan# 864

Delta R.T. -0.000 min

Lab File: VV039144.D

Acq: 22 Sep 2025 16:58

Instrument :

MSVOA_V

ClientSampleId :

ICVV092225

Tgt Ion: 96 Resp: 459958

Ion Ratio Lower Upper

96 100

61 142.3 0.0 286.4

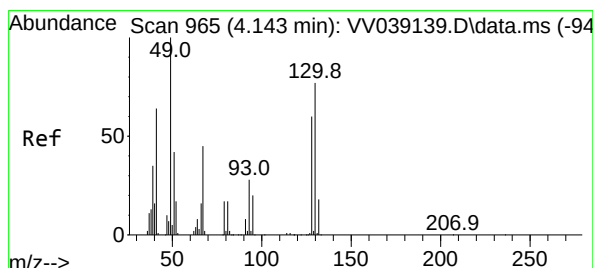
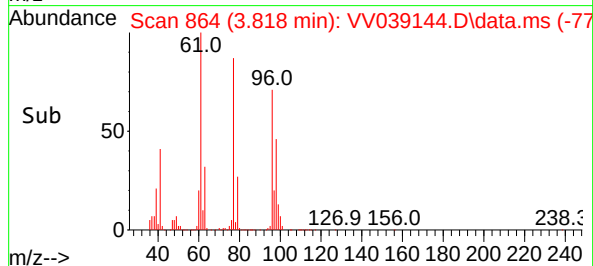
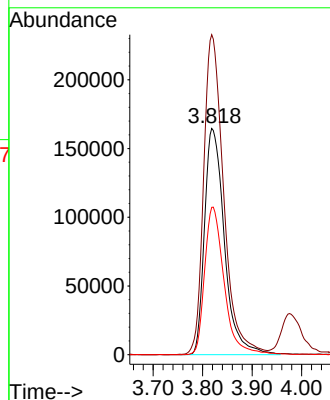
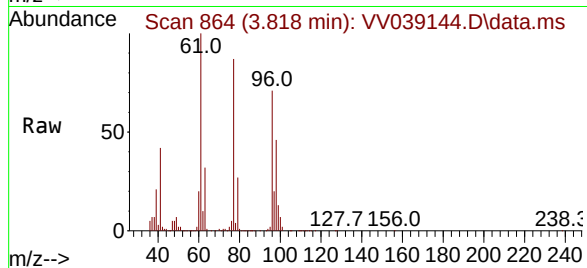
98 63.9 0.0 126.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025

Supervised By :Semsettin Yesilyurt 09/26/2025



#28

Bromochloromethane

Concen: 52.149 ug/l

RT: 4.146 min Scan# 966

Delta R.T. 0.003 min

Lab File: VV039144.D

Acq: 22 Sep 2025 16:58

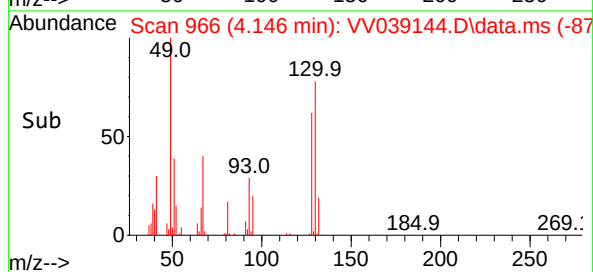
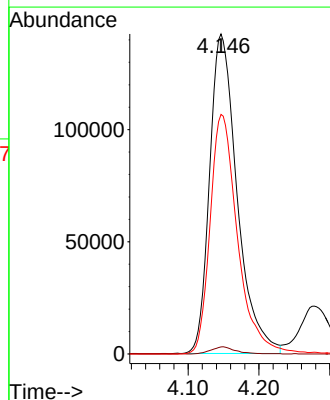
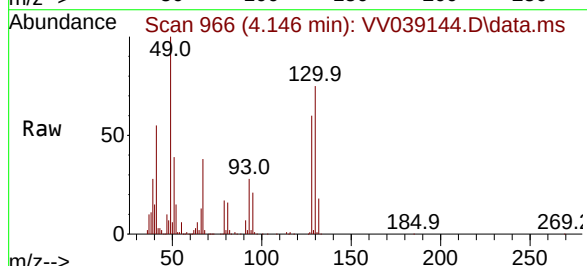
Tgt Ion: 49 Resp: 384995

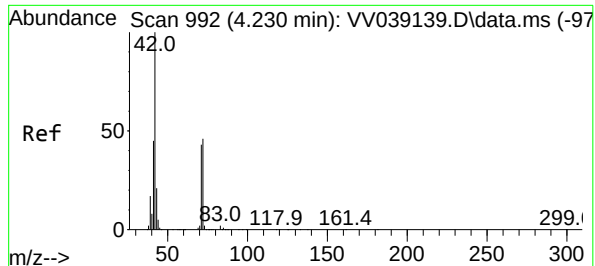
Ion Ratio Lower Upper

49 100

129 2.0 0.0 4.2

130 74.8 60.2 90.2





#29

Tetrahydrofuran

Concen: 276.528 ug/l

RT: 4.236 min Scan# 992

Delta R.T. 0.006 min

Lab File: VV039144.D

Acq: 22 Sep 2025 16:58

Instrument :

MSVOA_V

ClientSampleId :

ICVV092225

Tgt Ion: 42 Resp: 106454

Ion Ratio Lower Upper

42 100

72 45.2 36.3 54.5

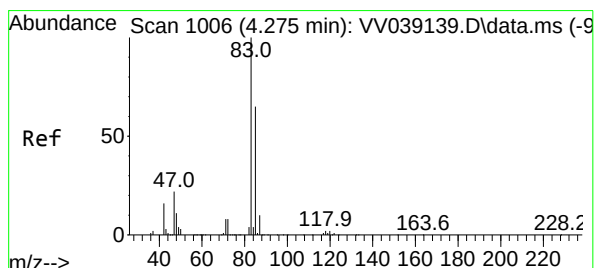
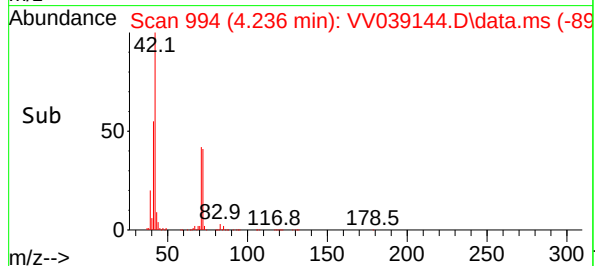
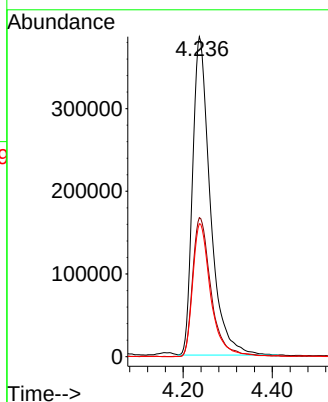
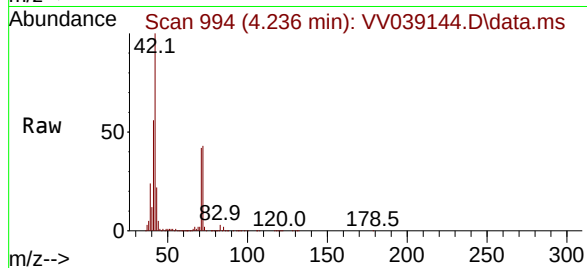
71 42.4 34.3 51.5

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025

Supervised By :Semsettin Yesilyurt 09/26/2025



#30

Chloroform

Concen: 46.980 ug/l

RT: 4.278 min Scan# 1007

Delta R.T. 0.003 min

Lab File: VV039144.D

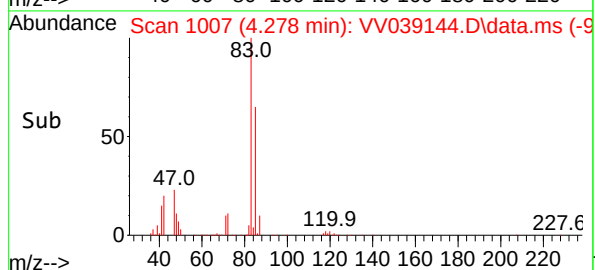
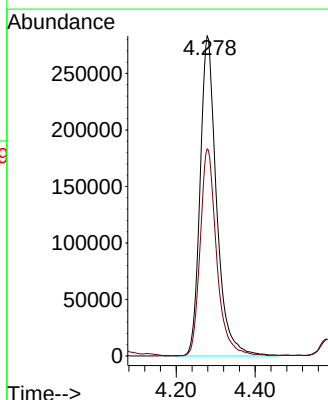
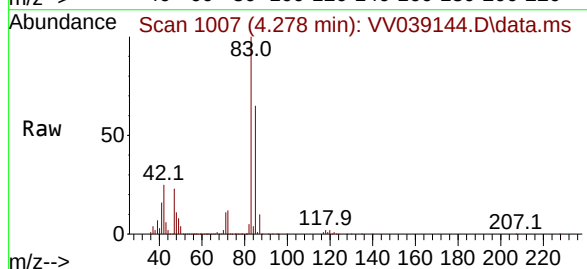
Acq: 22 Sep 2025 16:58

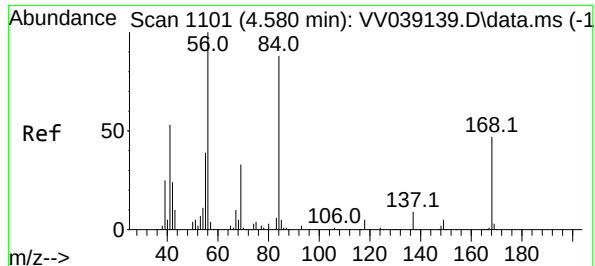
Tgt Ion: 83 Resp: 820367

Ion Ratio Lower Upper

83 100

85 64.6 52.1 78.1





#31

Cyclohexane

Concen: 47.799 ug/l

RT: 4.584 min Scan# 1101

Delta R.T. 0.003 min

Lab File: VV039144.D

Acq: 22 Sep 2025 16:58

Instrument :

MSVOA_V

ClientSampleId :

ICVV092225

Tgt Ion: 56 Resp: 654800

Ion Ratio Lower Upper

56 100

69 32.5 26.2 39.2

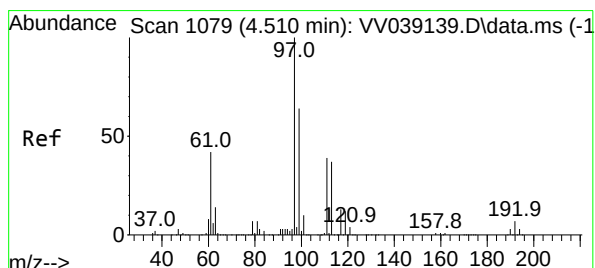
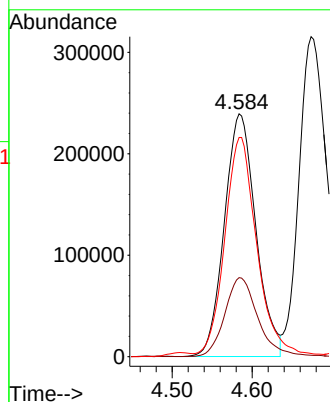
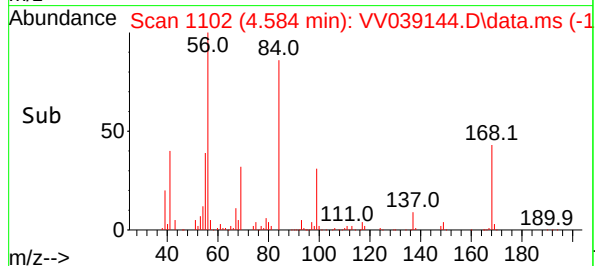
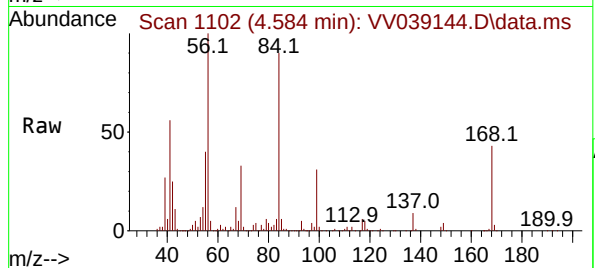
84 88.6 70.3 105.5

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025

Supervised By :Semsettin Yesilyurt 09/26/2025



#32

1,1,1-Trichloroethane

Concen: 46.922 ug/l

RT: 4.513 min Scan# 1080

Delta R.T. 0.003 min

Lab File: VV039144.D

Acq: 22 Sep 2025 16:58

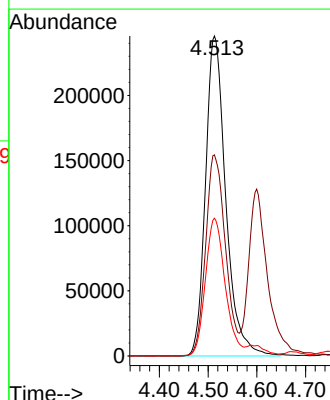
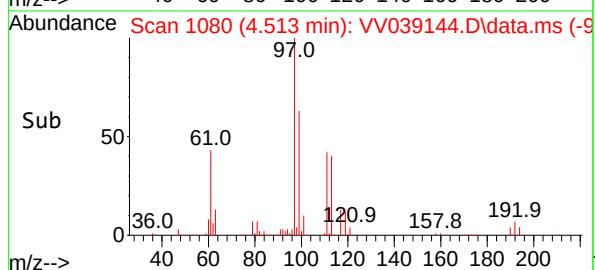
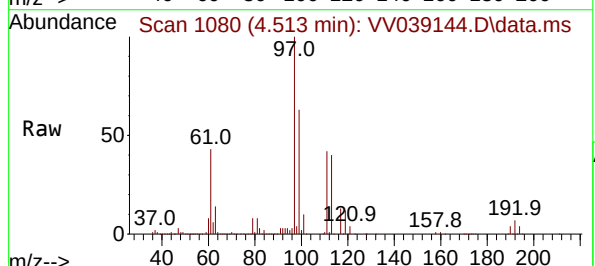
Tgt Ion: 97 Resp: 709351

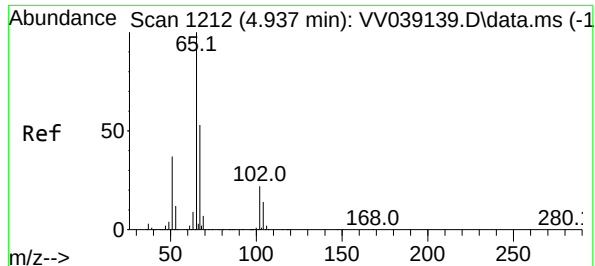
Ion Ratio Lower Upper

97 100

99 61.4 49.6 74.4

61 42.0 34.5 51.7





#33

1,2-Dichloroethane-d4

Concen: 48.041 ug/l

RT: 4.940 min Scan# 1

Delta R.T. 0.003 min

Lab File: VV039144.D

Acq: 22 Sep 2025 16:58

Instrument :

MSVOA_V

ClientSampleId :

ICVV092225

Tgt Ion: 65 Resp: 36898

Ion Ratio Lower Upper

65 100

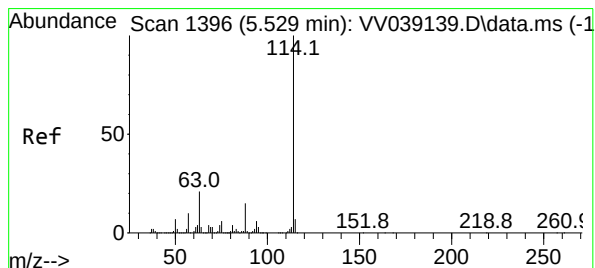
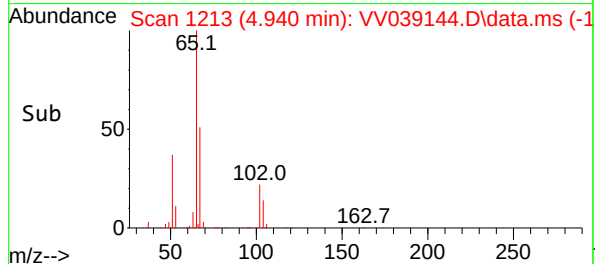
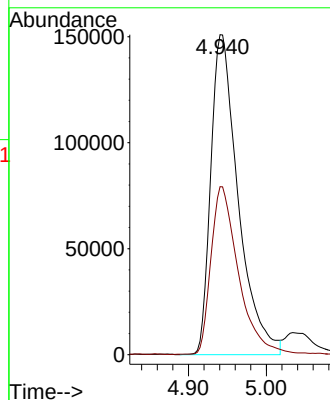
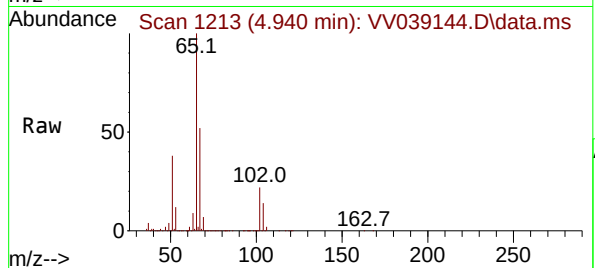
67 52.5 0.0 107.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025

Supervised By :Semsettin Yesilyurt 09/26/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.535 min Scan# 1398

Delta R.T. 0.006 min

Lab File: VV039144.D

Acq: 22 Sep 2025 16:58

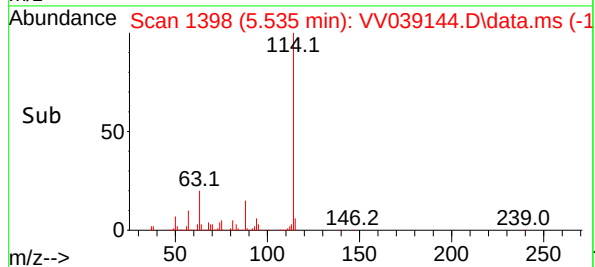
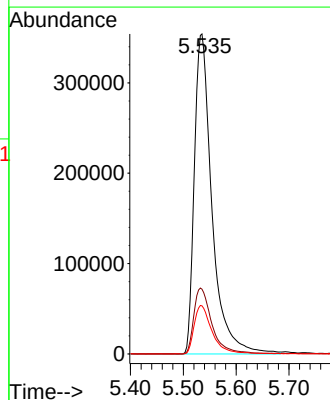
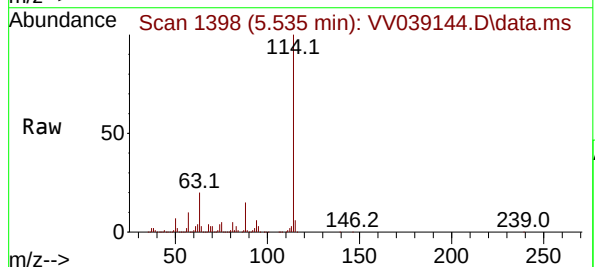
Tgt Ion:114 Resp: 821122

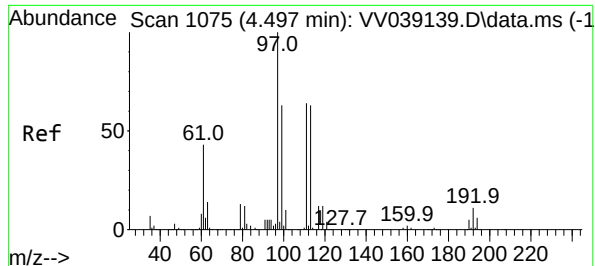
Ion Ratio Lower Upper

114 100

63 20.2 0.0 42.6

88 15.1 0.0 30.8





#35

Dibromofluoromethane

Concen: 50.832 ug/l

RT: 4.500 min Scan# 1075

Delta R.T. 0.003 min

Lab File: VV039144.D

Acq: 22 Sep 2025 16:58

Instrument :

MSVOA_V

ClientSampleId :

ICVV092225

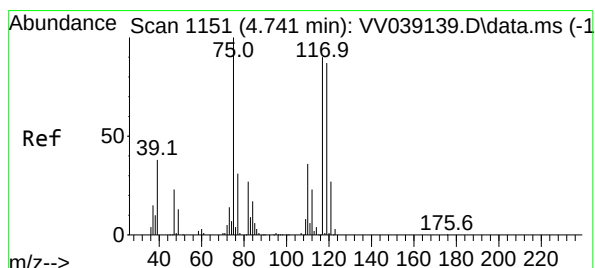
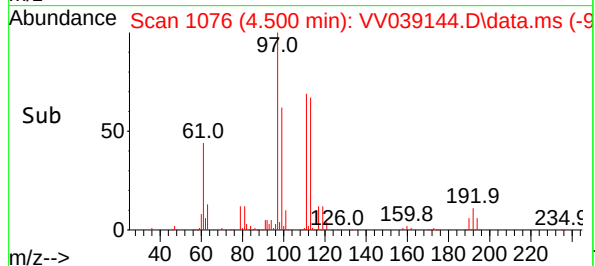
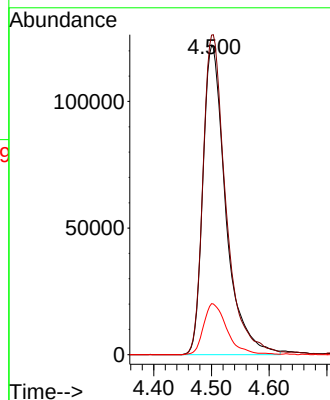
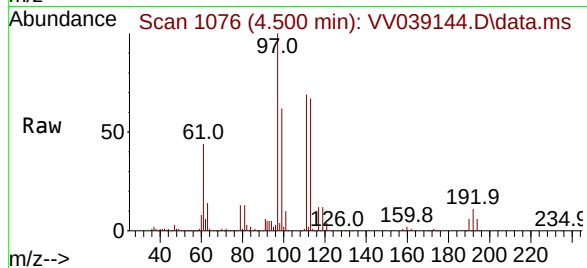
Tgt Ion:	113	Resp:	335549
Ion	Ratio	Lower	Upper
113	100		
111	103.7	82.4	123.6
192	16.8	13.8	20.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025

Supervised By :Semsettin Yesilyurt 09/26/2025



#36

1,1-Dichloropropene

Concen: 53.809 ug/l

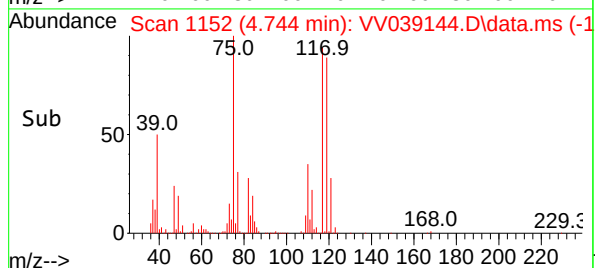
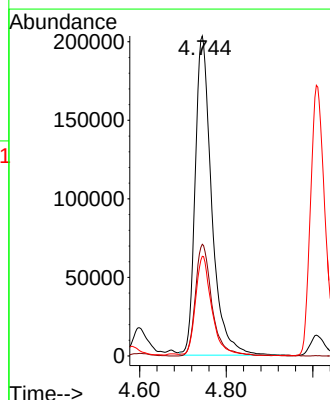
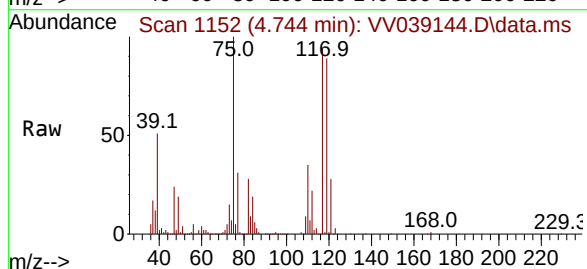
RT: 4.744 min Scan# 1152

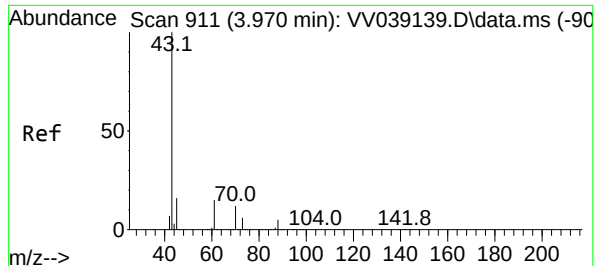
Delta R.T. 0.003 min

Lab File: VV039144.D

Acq: 22 Sep 2025 16:58

Tgt Ion:	75	Resp:	537027
Ion	Ratio	Lower	Upper
75	100		
110	35.3	18.1	54.1
77	30.4	24.8	37.2





#37

Ethyl Acetate

Concen: 52.050 ug/l

RT: 3.976 min Scan# 911

Delta R.T. 0.006 min

Lab File: VV039144.D

Acq: 22 Sep 2025 16:58

Instrument :

MSVOA_V

ClientSampleId :

ICVV092225

Tgt Ion: 43 Resp: 63034

Ion Ratio Lower Upper

43 100

61 12.4 10.3 15.5

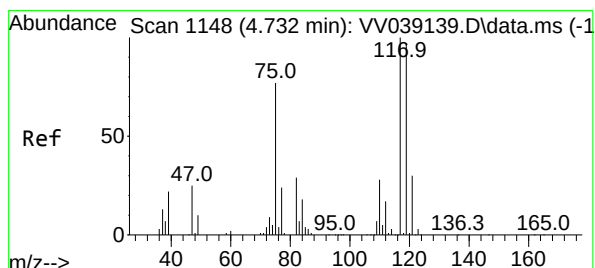
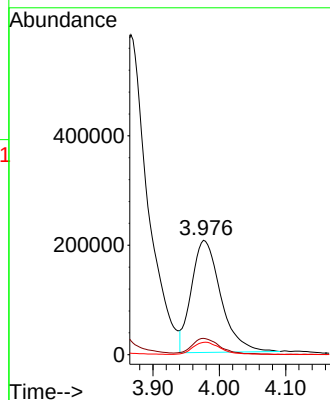
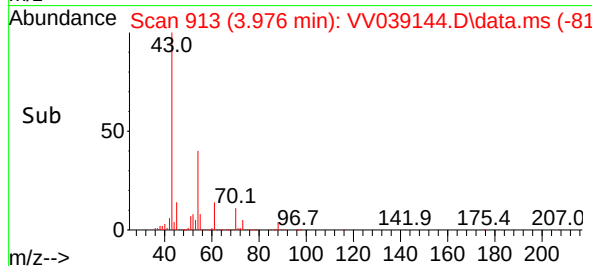
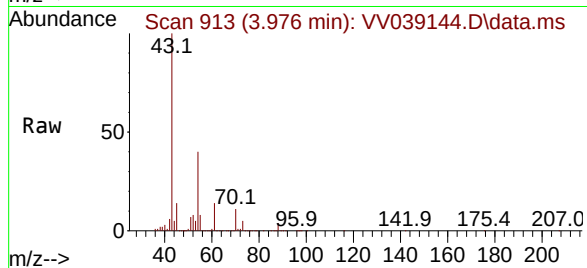
70 10.3 8.0 12.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025

Supervised By :Semsettin Yesilyurt 09/26/2025



#38

Carbon Tetrachloride

Concen: 49.452 ug/l

RT: 4.735 min Scan# 1149

Delta R.T. 0.003 min

Lab File: VV039144.D

Acq: 22 Sep 2025 16:58

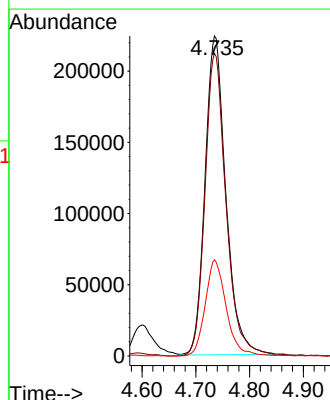
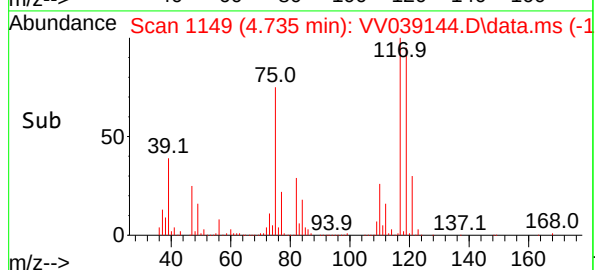
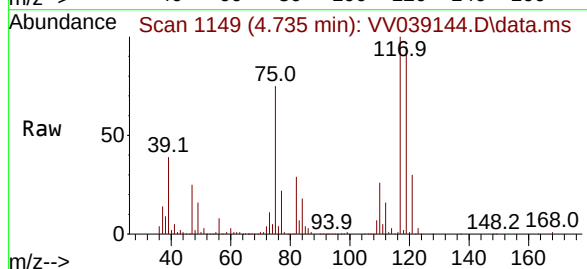
Tgt Ion:117 Resp: 603187

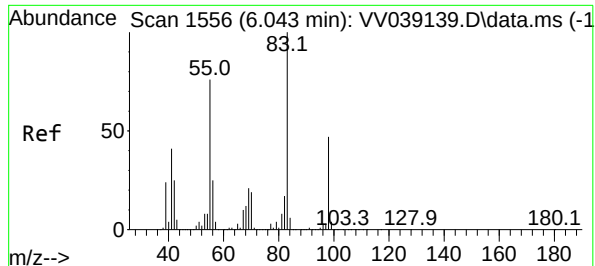
Ion Ratio Lower Upper

117 100

119 94.9 77.2 115.8

121 30.1 24.2 36.2





#39

Methylcyclohexane

Concen: 57.426 ug/l

RT: 6.047 min Scan# 1

Delta R.T. 0.004 min

Lab File: VV039144.D

Acq: 22 Sep 2025 16:58

Instrument :

MSVOA_V

ClientSampleId :

ICVV092225

Tgt Ion: 83 Resp: 69213

Ion Ratio Lower Upper

83 100

55 76.9 60.5 90.7

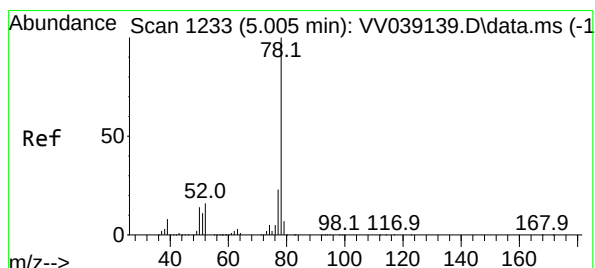
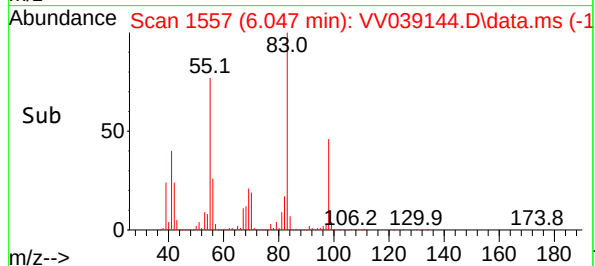
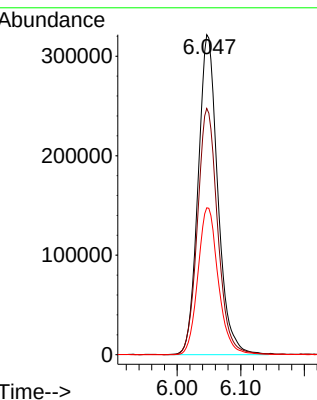
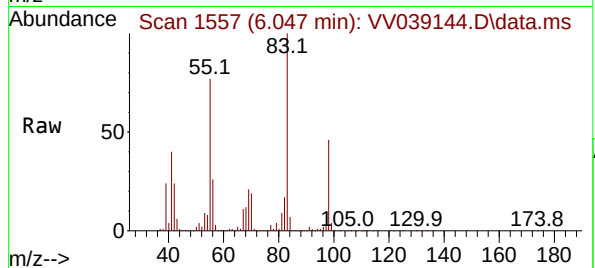
98 45.9 37.8 56.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025

Supervised By :Semsettin Yesilyurt 09/26/2025



#40

Benzene

Concen: 52.293 ug/l

RT: 5.008 min Scan# 1234

Delta R.T. 0.003 min

Lab File: VV039144.D

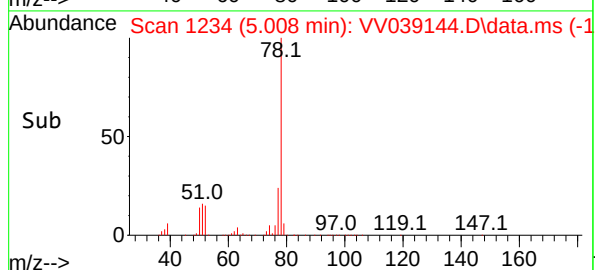
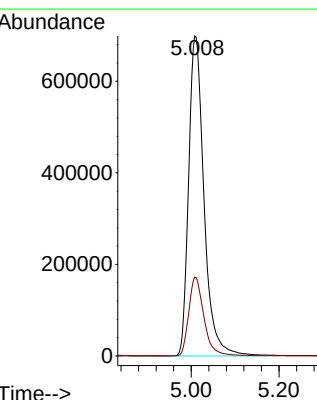
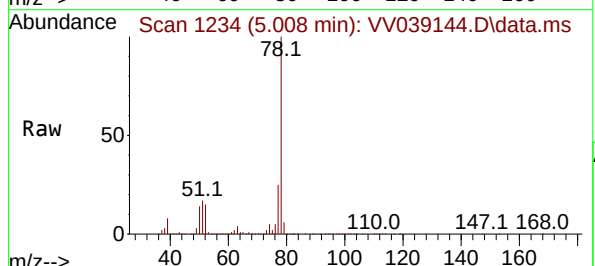
Acq: 22 Sep 2025 16:58

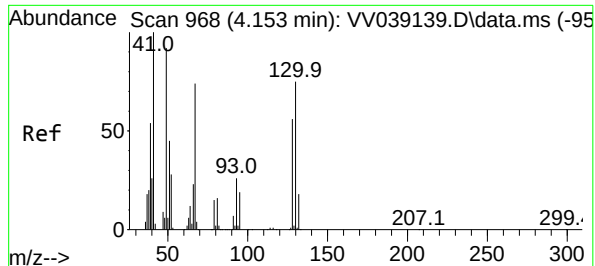
Tgt Ion: 78 Resp: 1699505

Ion Ratio Lower Upper

78 100

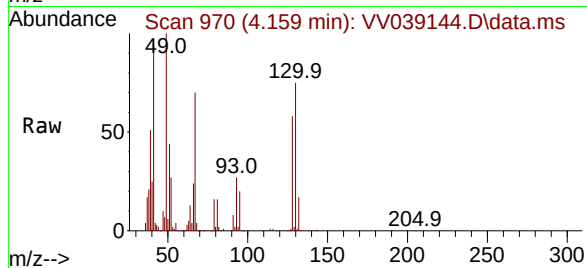
77 24.6 18.7 28.1





#41
Methacrylonitrile
Concen: 51.602 ug/l
RT: 4.159 min Scan# 91
Delta R.T. 0.006 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

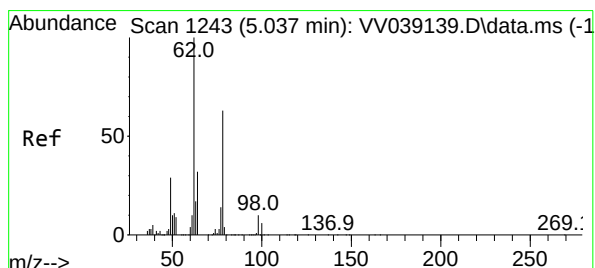
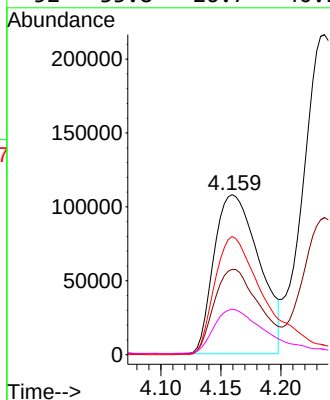
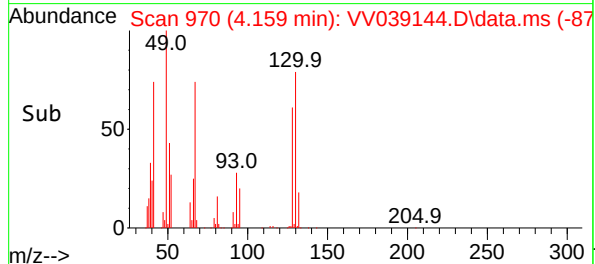
Instrument :
MSVOA_V
ClientSampleId :
ICVV092225



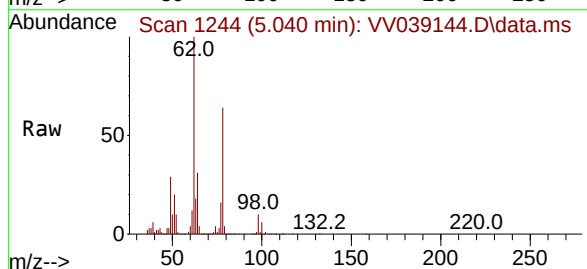
Tgt Ion: 41 Resp: 28289
Ion Ratio Lower Upper
41 100
39 53.6 42.2 63.2
67 86.4 67.9 101.9
52 33.8 26.7 40.1

Manual Integrations
APPROVED

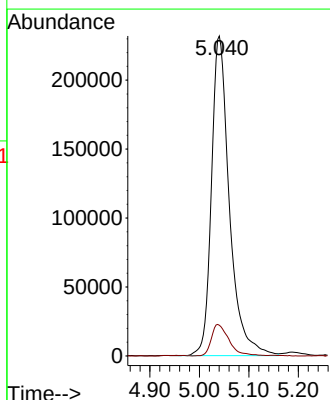
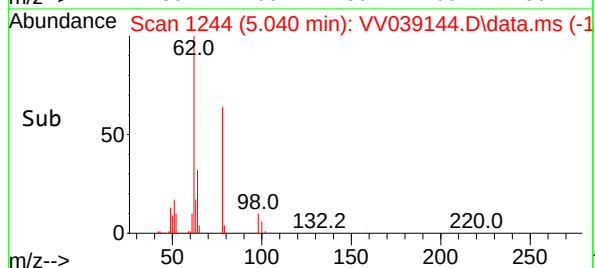
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

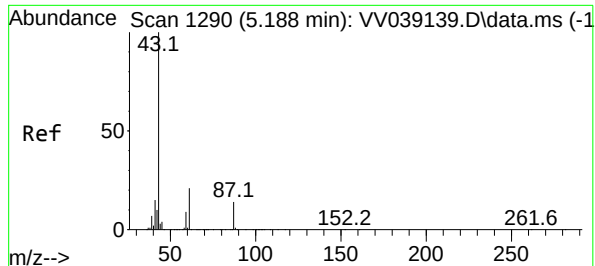


#42
1,2-Dichloroethane
Concen: 51.245 ug/l
RT: 5.040 min Scan# 1244
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58



Tgt Ion: 62 Resp: 583550
Ion Ratio Lower Upper
62 100
98 9.8 0.0 19.2





#43

Isopropyl Acetate

Concen: 55.998 ug/l

RT: 5.194 min Scan# 1292

Delta R.T. 0.006 min

Lab File: VV039144.D

Acq: 22 Sep 2025 16:58

Instrument :

MSVOA_V

ClientSampleId :

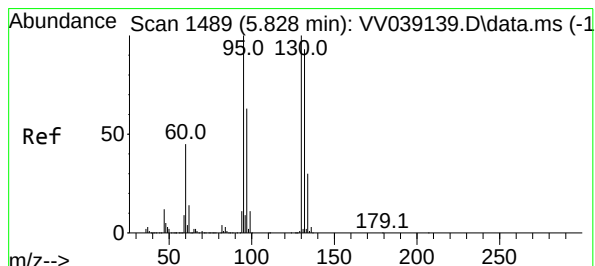
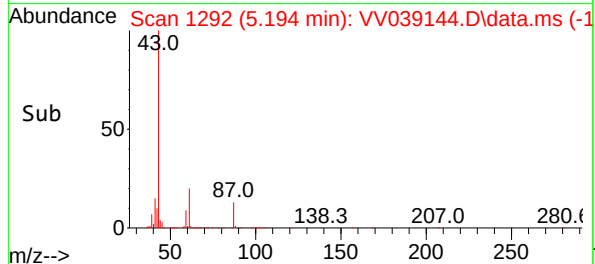
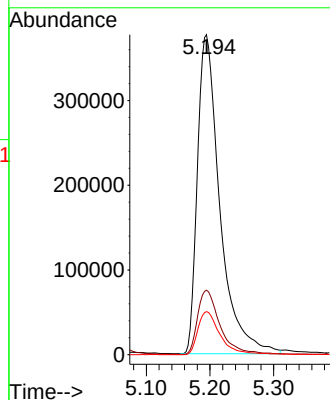
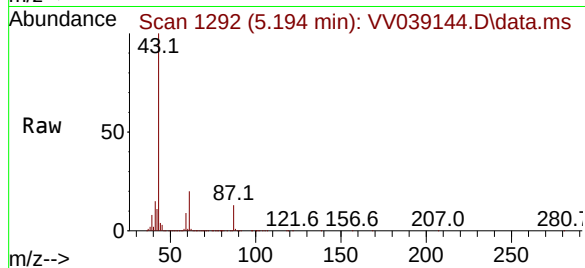
ICVV092225

Tgt Ion:	43	Resp:	924654
Ion	Ratio	Lower	Upper
43	100		
61	20.1	15.9	23.9
87	13.2	11.0	16.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#44

Trichloroethene

Concen: 51.216 ug/l

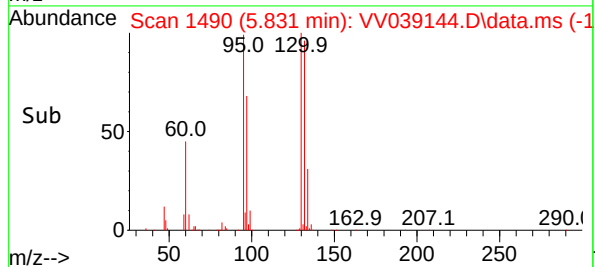
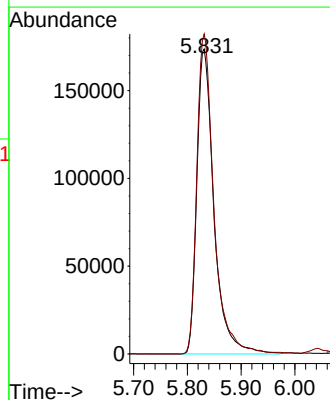
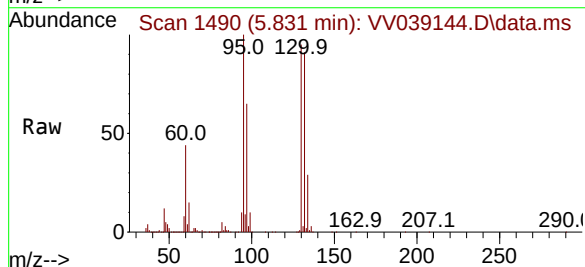
RT: 5.831 min Scan# 1490

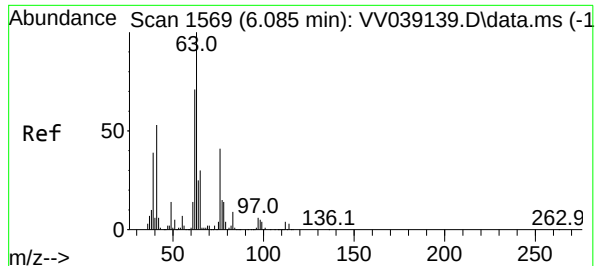
Delta R.T. 0.003 min

Lab File: VV039144.D

Acq: 22 Sep 2025 16:58

Tgt Ion:	130	Resp:	384092
Ion	Ratio	Lower	Upper
130	100		
95	104.9	0.0	199.2





#45

1,2-Dichloropropane

Concen: 54.495 ug/l

RT: 6.088 min Scan# 1570

Delta R.T. 0.003 min

Lab File: VV039144.D

Acq: 22 Sep 2025 16:58

Instrument :

MSVOA_V

ClientSampleId :

ICVV092225

Tgt Ion: 63 Resp: 44021

Ion Ratio Lower Upper

63 100

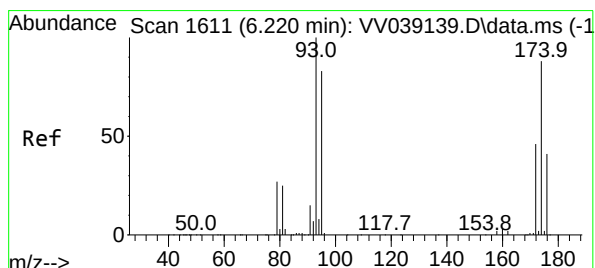
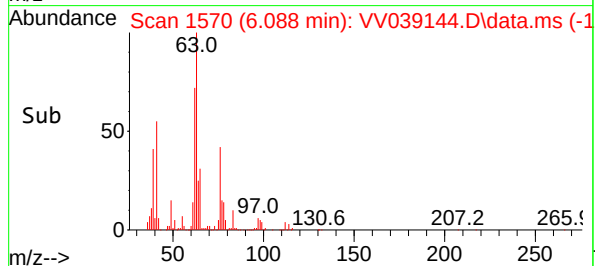
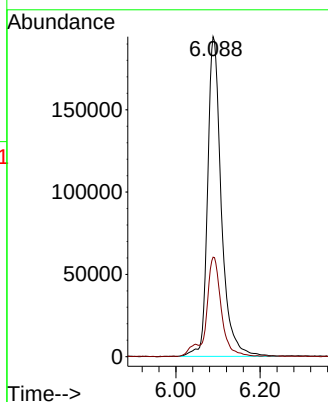
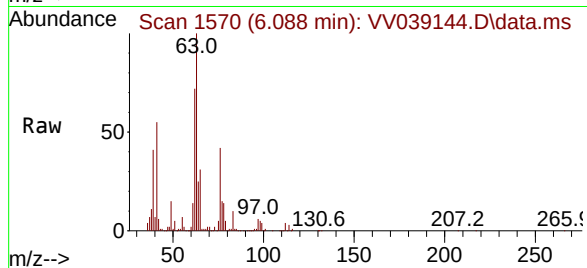
65 31.0 23.7 35.5

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025

Supervised By :Semsettin Yesilyurt 09/26/2025



#46

Dibromomethane

Concen: 51.116 ug/l

RT: 6.223 min Scan# 1612

Delta R.T. 0.003 min

Lab File: VV039144.D

Acq: 22 Sep 2025 16:58

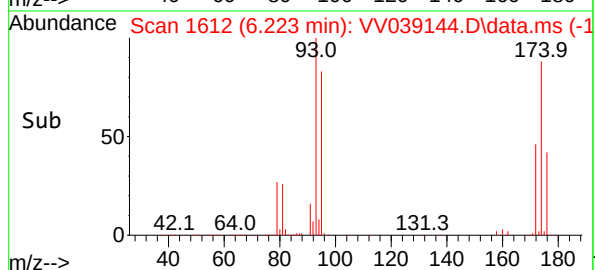
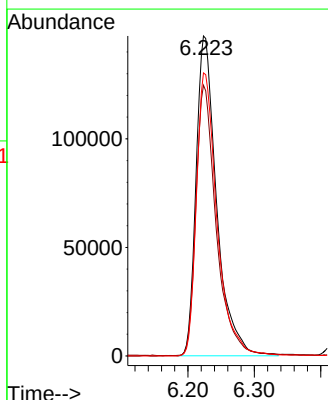
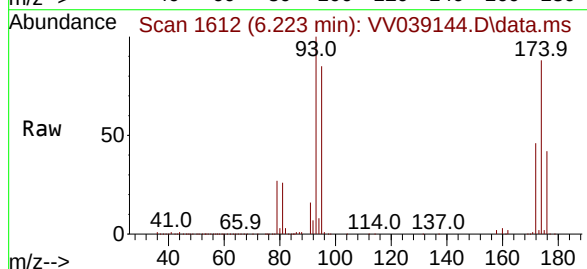
Tgt Ion: 93 Resp: 316032

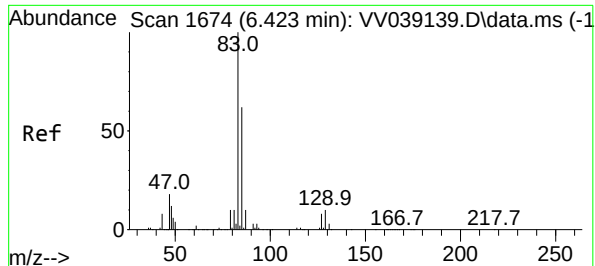
Ion Ratio Lower Upper

93 100

95 83.8 65.5 98.3

174 89.0 69.0 103.4





#47

Bromodichloromethane

Concen: 51.232 ug/l

RT: 6.426 min Scan# 1675

Delta R.T. 0.003 min

Lab File: VV039144.D

Acq: 22 Sep 2025 16:58

Instrument :

MSVOA_V

ClientSampleId :

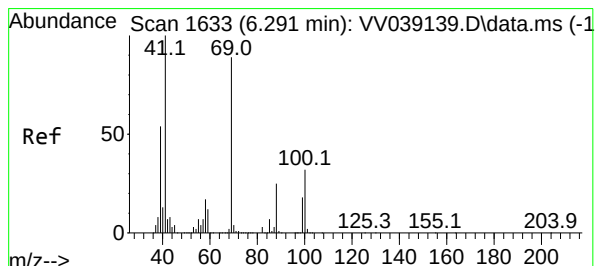
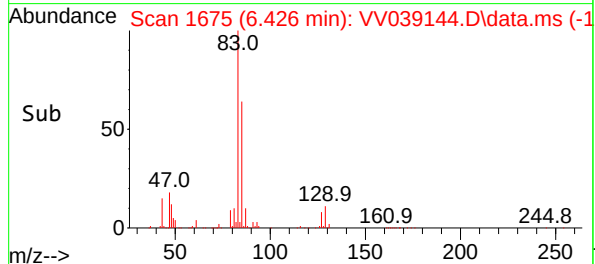
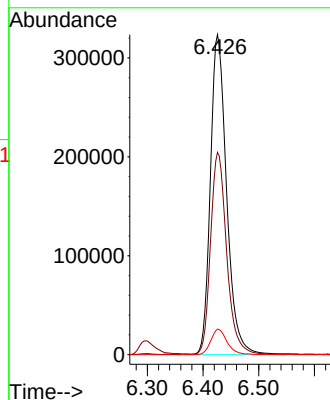
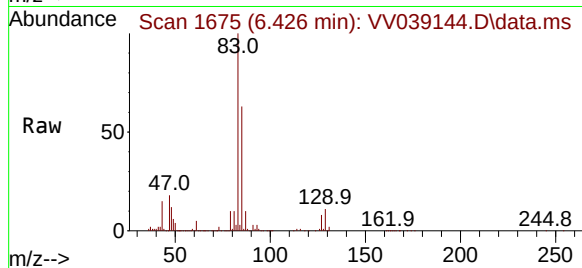
ICVV092225

Tgt Ion:	83	Resp:	654830
Ion	Ratio	Lower	Upper
83	100		
85	63.0	49.7	74.5
127	8.0	6.6	9.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#48

Methyl methacrylate

Concen: 59.104 ug/l

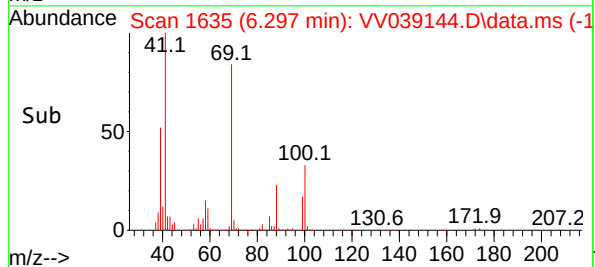
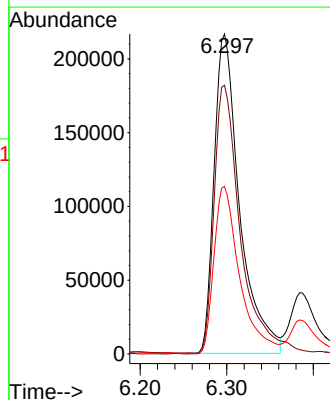
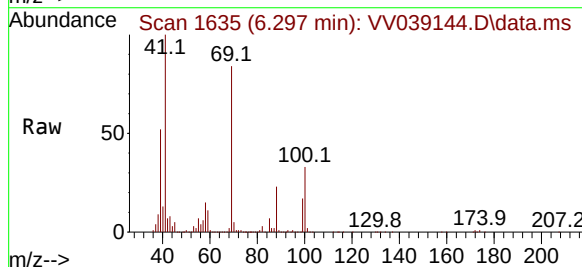
RT: 6.297 min Scan# 1635

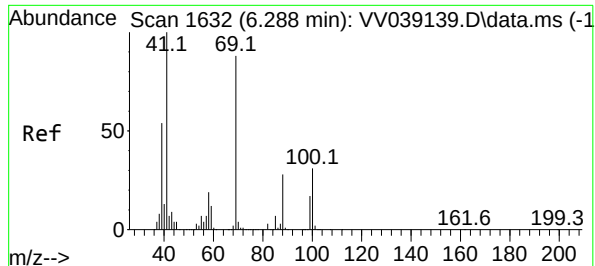
Delta R.T. 0.006 min

Lab File: VV039144.D

Acq: 22 Sep 2025 16:58

Tgt Ion:	41	Resp:	442395
Ion	Ratio	Lower	Upper
41	100		
69	87.4	72.4	108.6
39	52.6	42.5	63.7





#49

1,4-Dioxane

Concen: 1133.346 ug/l

RT: 6.291 min Scan# 1

Delta R.T. 0.003 min

Lab File: VV039144.D

Acq: 22 Sep 2025 16:58

Instrument :

MSVOA_V

ClientSampleId :

ICVV092225

Tgt Ion: 88 Resp: 13689

Ion Ratio Lower Upper

88 100

43 31.1 25.1 37.7

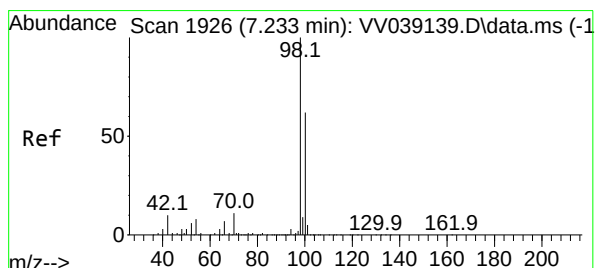
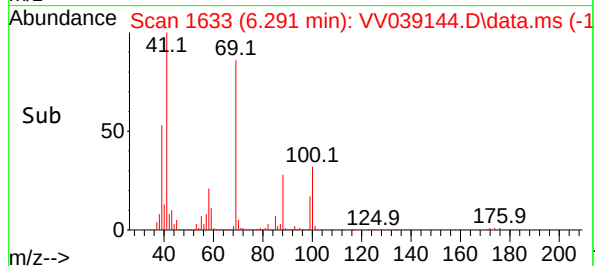
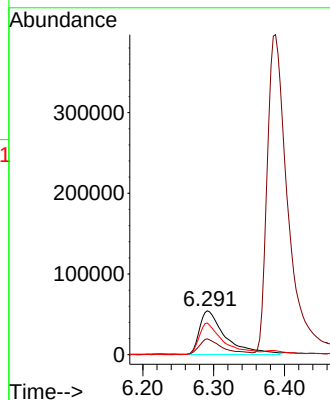
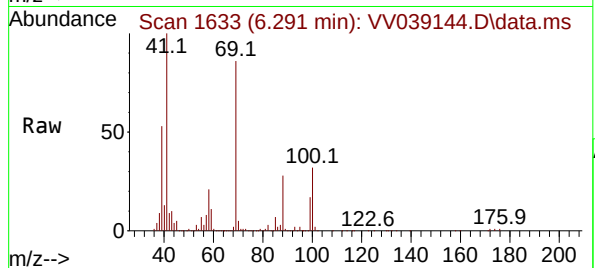
58 67.8 53.6 80.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025

Supervised By :Semsettin Yesilyurt 09/26/2025



#50

Toluene-d8

Concen: 52.199 ug/l

RT: 7.236 min Scan# 1927

Delta R.T. 0.003 min

Lab File: VV039144.D

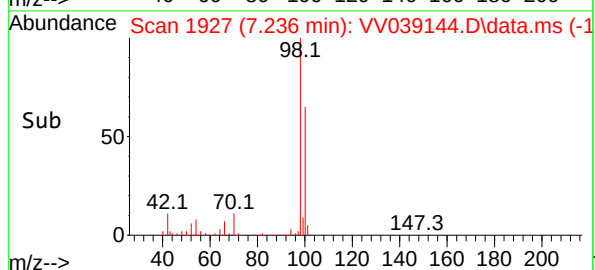
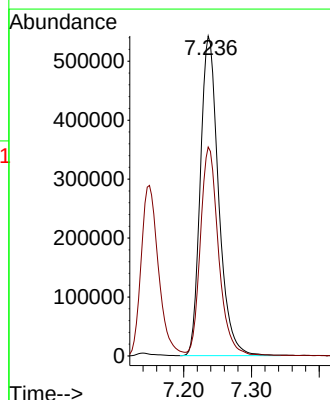
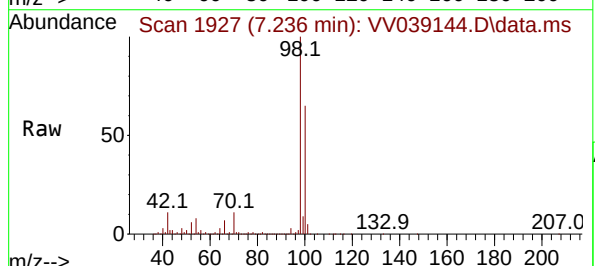
Acq: 22 Sep 2025 16:58

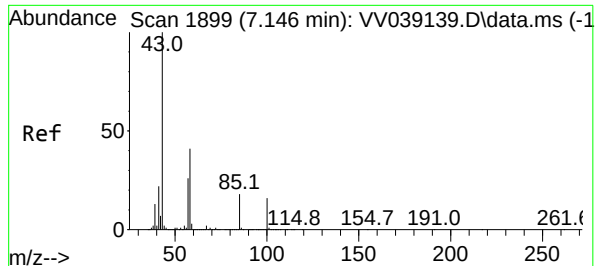
Tgt Ion: 98 Resp: 1012009

Ion Ratio Lower Upper

98 100

100 64.9 52.2 78.2





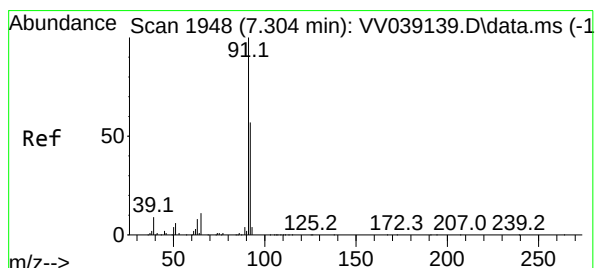
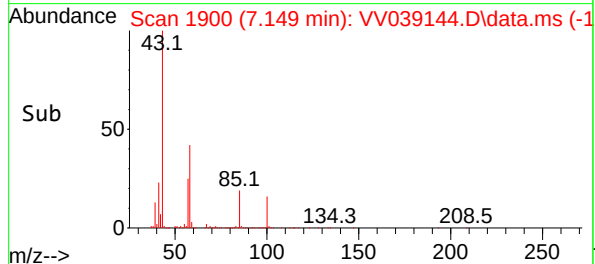
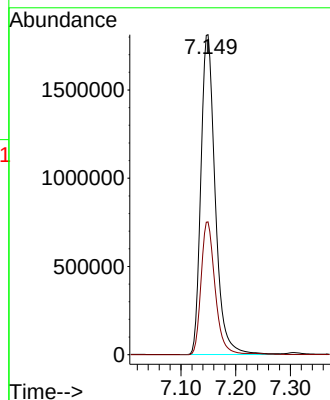
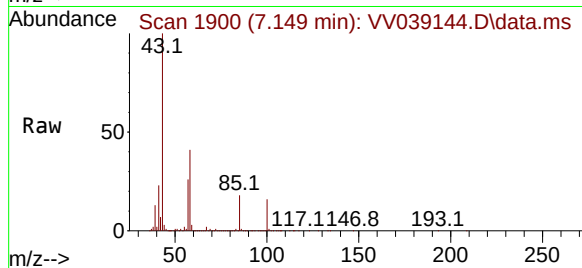
#51
4-Methyl-2-Pentanone
Concen: 303.119 ug/l
RT: 7.149 min Scan# 1899
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Instrument :
MSVOA_V
ClientSampleId :
ICVV092225

Tgt Ion: 43 Resp: 3292794
Ion Ratio Lower Upper
43 100
58 40.6 32.3 48.5

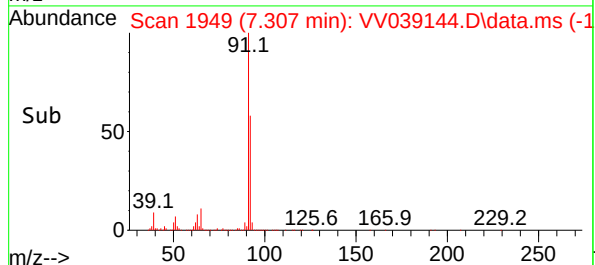
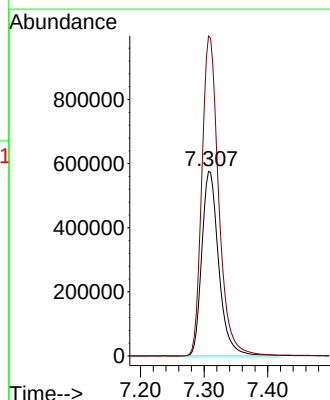
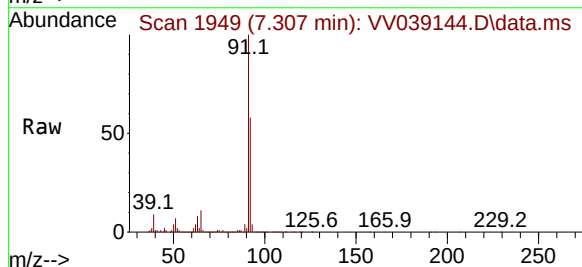
Manual Integrations
APPROVED

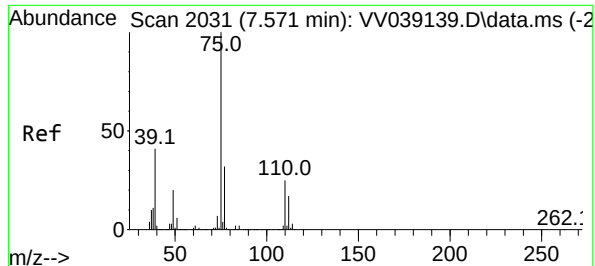
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#52
Toluene
Concen: 56.517 ug/l
RT: 7.307 min Scan# 1949
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 92 Resp: 1064972
Ion Ratio Lower Upper
92 100
91 173.0 139.2 208.8





#53

t-1,3-Dichloropropene

Concen: 55.823 ug/l

RT: 7.574 min Scan# 2031

Delta R.T. 0.003 min

Lab File: VV039144.D

Acq: 22 Sep 2025 16:58

Instrument :

MSVOA_V

ClientSampleId :

ICVV092225

Tgt Ion: 75 Resp: 621814

Ion Ratio Lower Upper

75 100

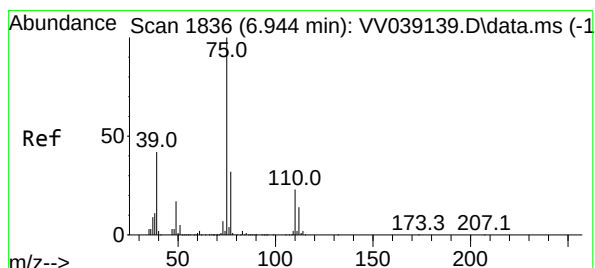
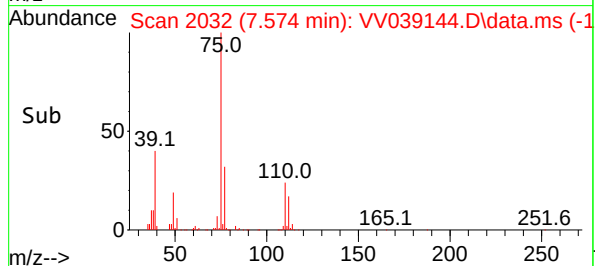
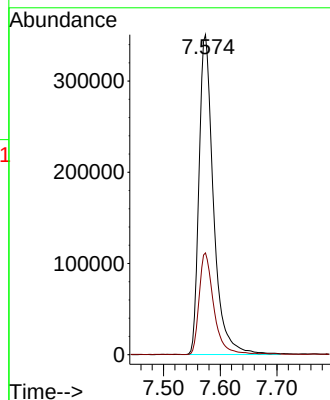
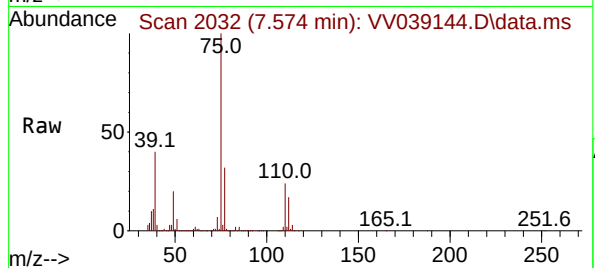
77 31.7 25.9 38.9

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025

Supervised By :Semsettin Yesilyurt 09/26/2025



#54

cis-1,3-Dichloropropene

Concen: 56.154 ug/l

RT: 6.947 min Scan# 1837

Delta R.T. 0.003 min

Lab File: VV039144.D

Acq: 22 Sep 2025 16:58

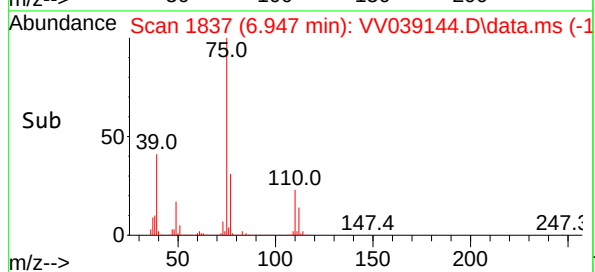
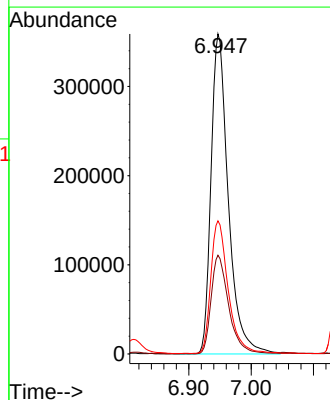
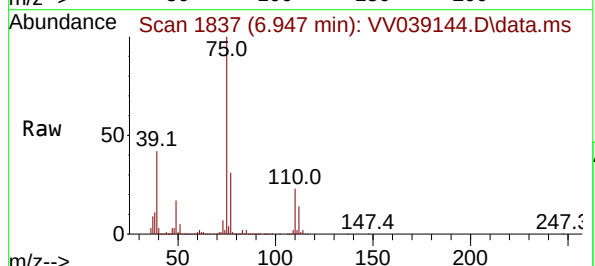
Tgt Ion: 75 Resp: 690532

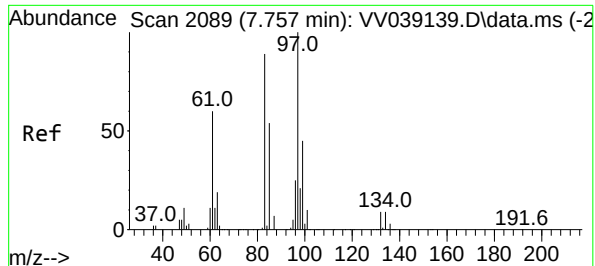
Ion Ratio Lower Upper

75 100

77 30.8 25.5 38.3

39 41.5 33.8 50.6





#55

1,1,2-Trichloroethane

Concen: 51.231 ug/l

RT: 7.760 min Scan# 2089

Delta R.T. 0.003 min

Lab File: VV039144.D

Acq: 22 Sep 2025 16:58

Instrument :

MSVOA_V

ClientSampleId :

ICVV092225

Tgt Ion: 97 Resp: 432850

Ion Ratio Lower Upper

97 100

83 87.7 71.1 106.7

85 55.2 44.6 67.0

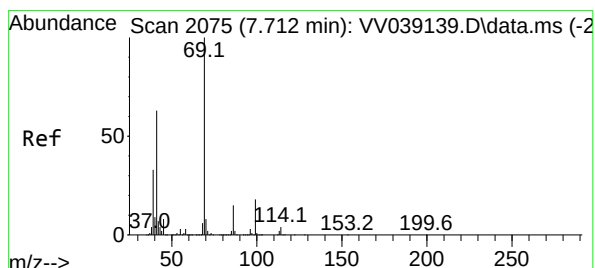
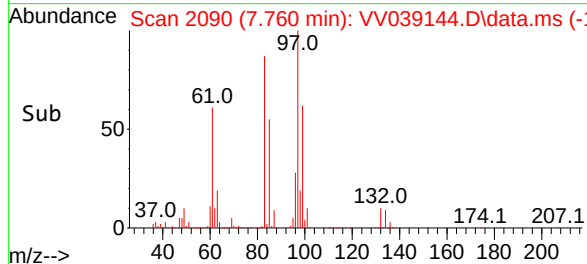
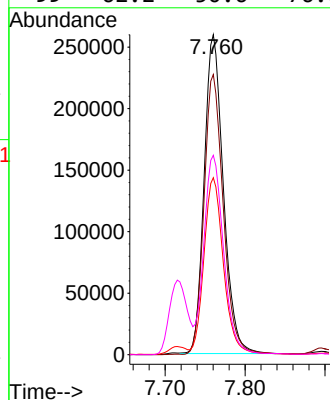
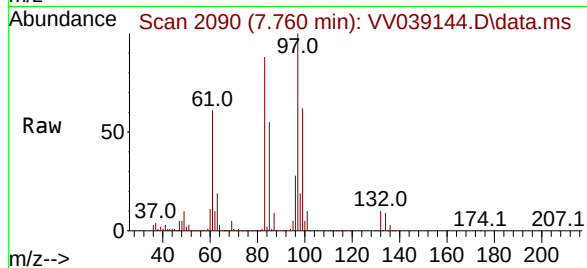
99 62.2 50.6 76.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025

Supervised By :Semsettin Yesilyurt 09/26/2025



#56

Ethyl methacrylate

Concen: 60.810 ug/l

RT: 7.715 min Scan# 2076

Delta R.T. 0.003 min

Lab File: VV039144.D

Acq: 22 Sep 2025 16:58

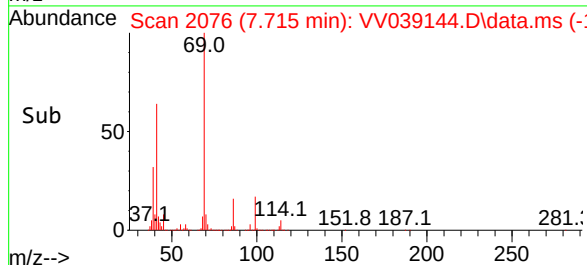
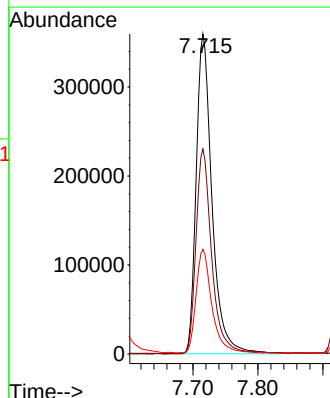
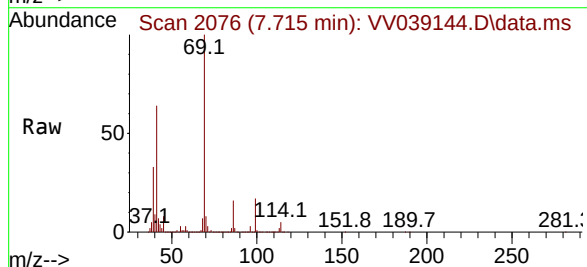
Tgt Ion: 69 Resp: 610159

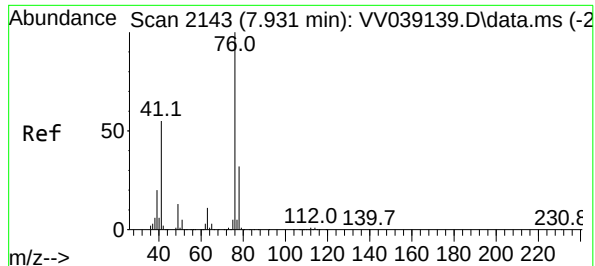
Ion Ratio Lower Upper

69 100

41 62.8 50.7 76.1

39 32.0 26.0 39.0





#57

1,3-Dichloropropane

Concen: 53.769 ug/l

RT: 7.934 min Scan# 2143

Delta R.T. 0.003 min

Lab File: VV039144.D

Acq: 22 Sep 2025 16:58

Instrument :

MSVOA_V

ClientSampleId :

ICVV092225

Tgt Ion: 76 Resp: 71695

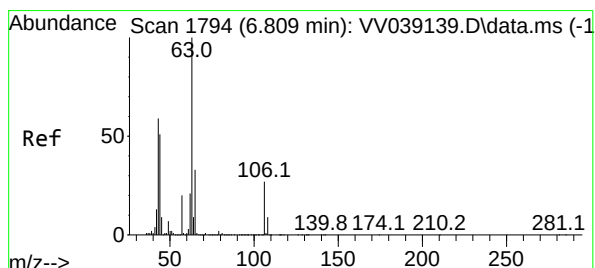
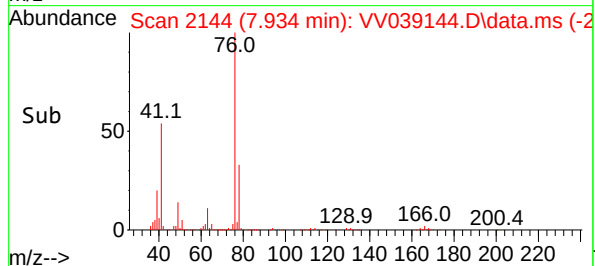
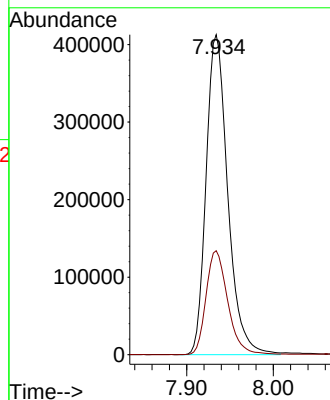
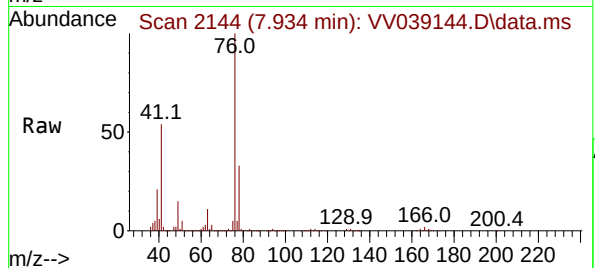
Ion Ratio Lower Upper

76 100

78 32.9 26.1 39.1

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

#58

2-Chloroethyl Vinyl ether

Concen: 259.936 ug/l

RT: 6.812 min Scan# 1795

Delta R.T. 0.003 min

Lab File: VV039144.D

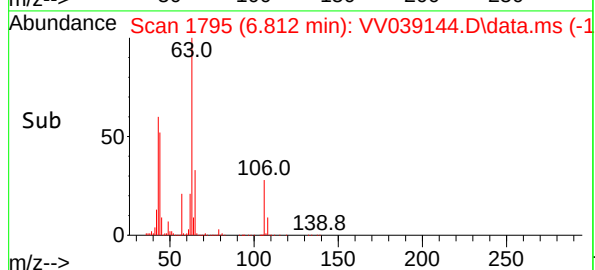
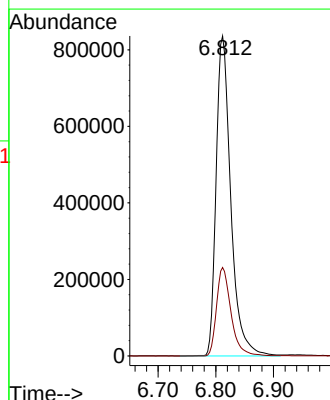
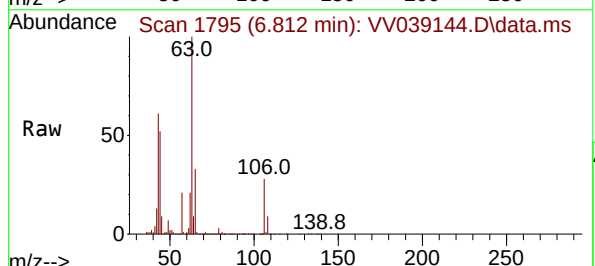
Acq: 22 Sep 2025 16:58

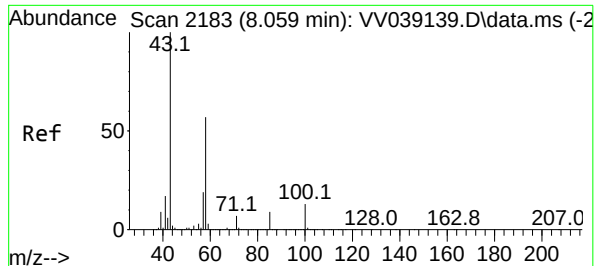
Tgt Ion: 63 Resp: 1474938

Ion Ratio Lower Upper

63 100

106 27.3 22.1 33.1





#59

2-Hexanone

Concen: 280.545 ug/l

RT: 8.063 min Scan# 2184

Delta R.T. 0.004 min

Lab File: VV039144.D

Acq: 22 Sep 2025 16:58

Instrument :

MSVOA_V

ClientSampleId :

ICVV092225

Tgt Ion: 43 Resp: 246249

Ion Ratio Lower Upper

43 100

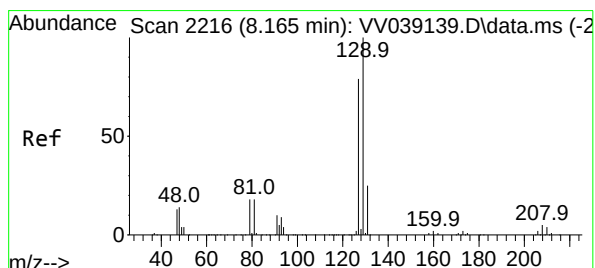
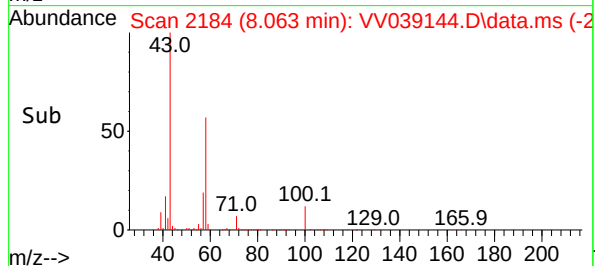
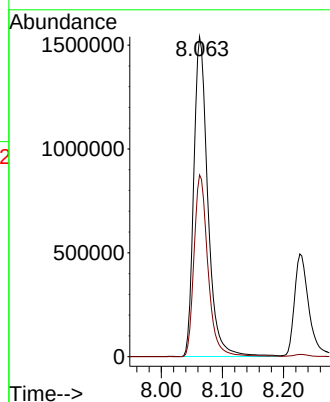
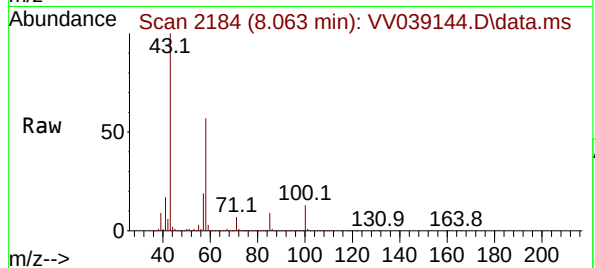
58 56.4 28.3 85.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025

Supervised By :Semsettin Yesilyurt 09/26/2025



#60

Dibromochloromethane

Concen: 51.926 ug/l

RT: 8.169 min Scan# 2217

Delta R.T. 0.003 min

Lab File: VV039144.D

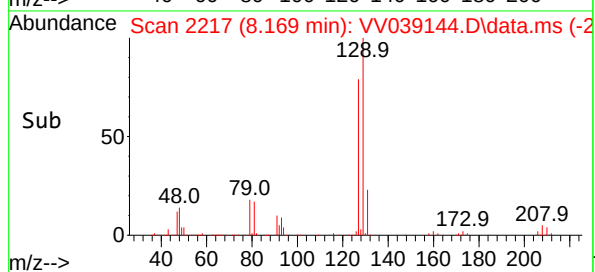
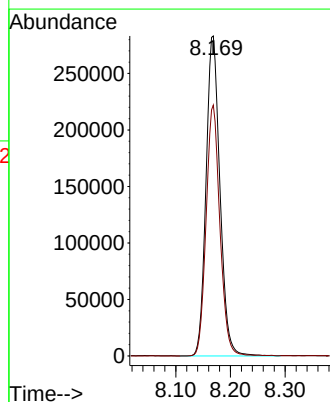
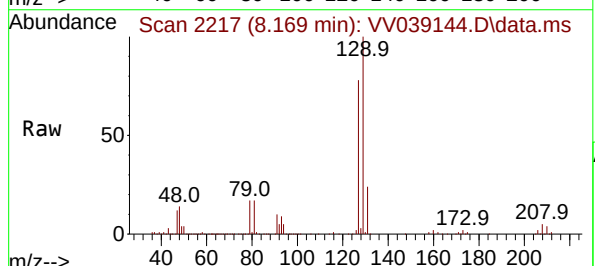
Acq: 22 Sep 2025 16:58

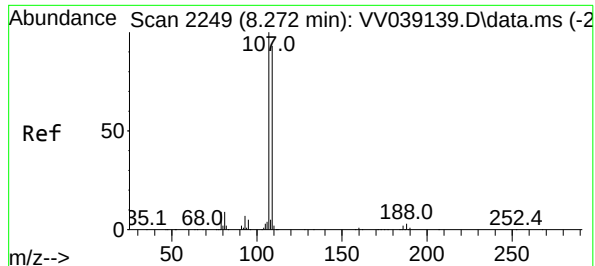
Tgt Ion:129 Resp: 499908

Ion Ratio Lower Upper

129 100

127 77.5 39.3 117.9





#61

1,2-Dibromoethane

Concen: 53.295 ug/l

RT: 8.272 min Scan# 2249

Delta R.T. -0.000 min

Lab File: VV039144.D

Acq: 22 Sep 2025 16:58

Instrument :

MSVOA_V

ClientSampleId :

ICVV092225

Tgt Ion:107 Resp: 460510

Ion Ratio Lower Upper

107 100

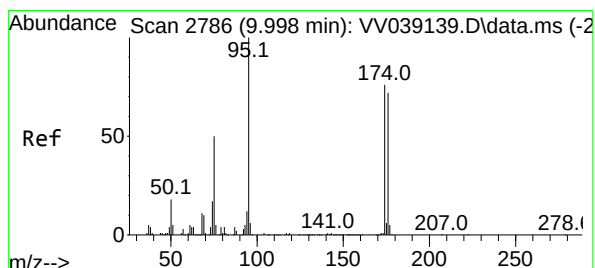
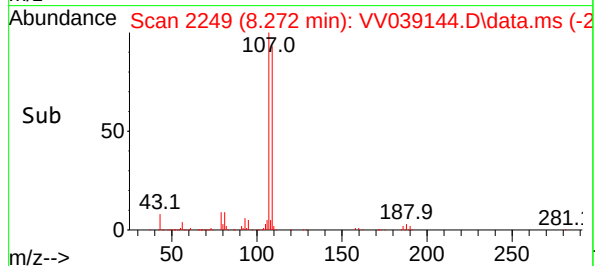
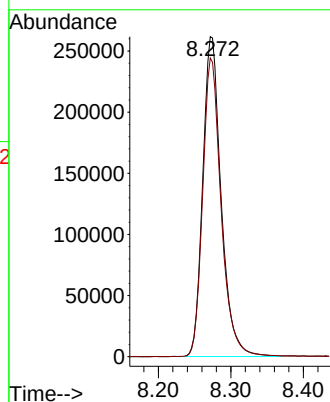
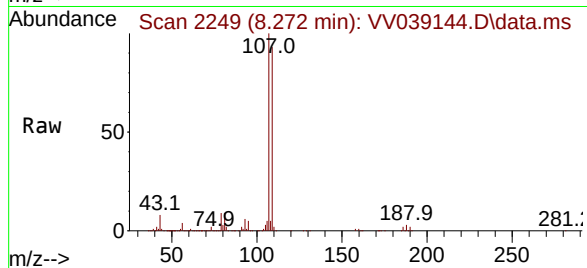
109 93.6 74.6 112.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025

Supervised By :Semsettin Yesilyurt 09/26/2025



#62

4-Bromofluorobenzene

Concen: 56.823 ug/l

RT: 10.001 min Scan# 2787

Delta R.T. 0.003 min

Lab File: VV039144.D

Acq: 22 Sep 2025 16:58

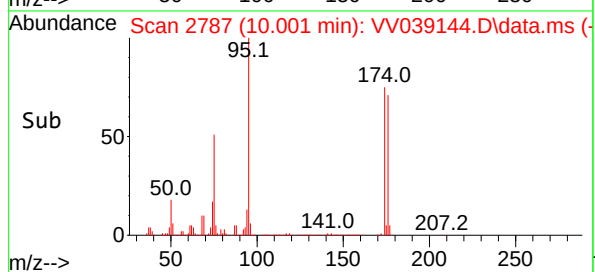
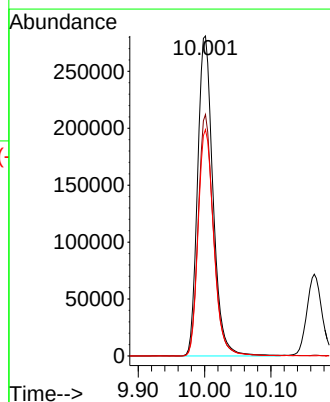
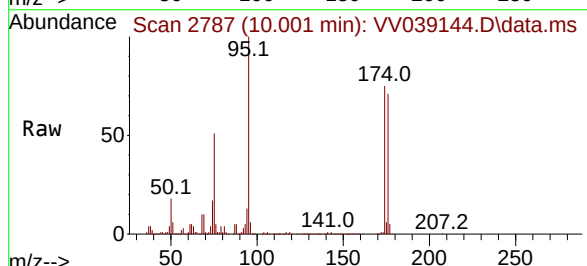
Tgt Ion: 95 Resp: 453523

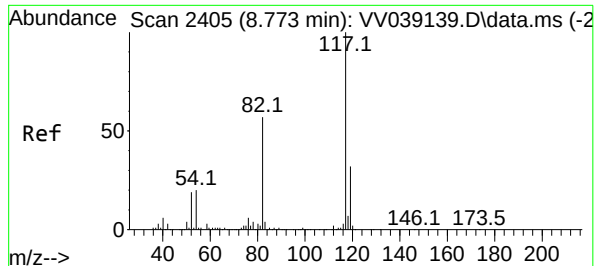
Ion Ratio Lower Upper

95 100

174 74.8 0.0 150.4

176 71.8 0.0 144.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 8.776 min Scan# 2405

Delta R.T. 0.003 min

Lab File: VV039144.D

Acq: 22 Sep 2025 16:58

Instrument :

MSVOA_V

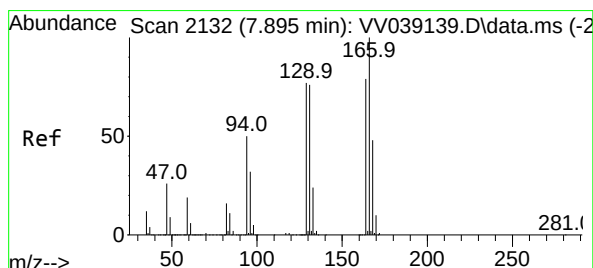
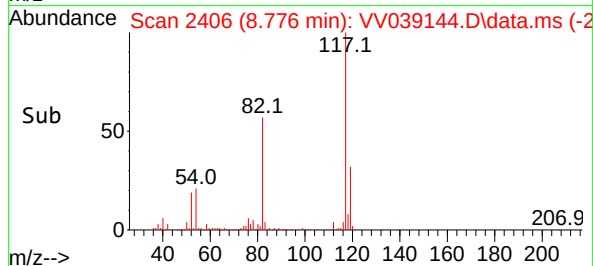
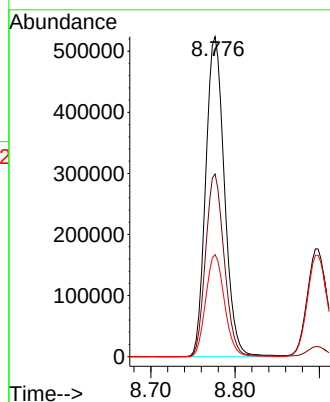
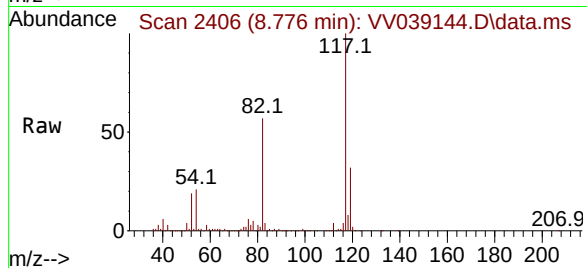
ClientSampleId :

ICVVV092225

Tgt Ion:	117	Resp:	81135
Ion	Ratio	Lower	Upper
117	100		
82	57.1	45.4	68.2
119	31.9	25.6	38.4

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#64

Tetrachloroethene

Concen: 50.954 ug/l

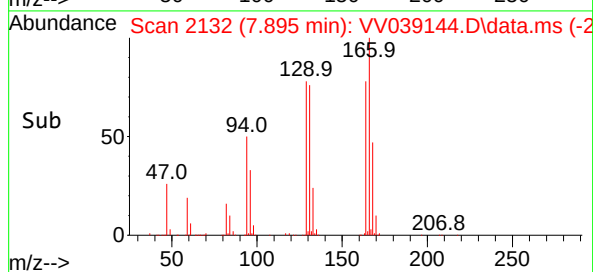
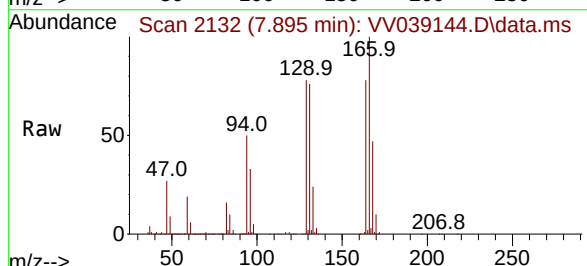
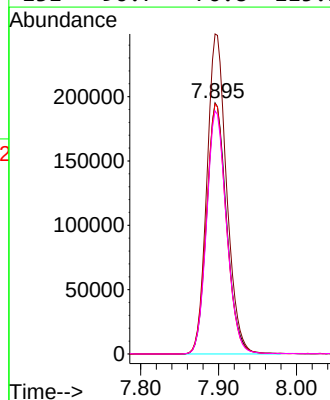
RT: 7.895 min Scan# 2132

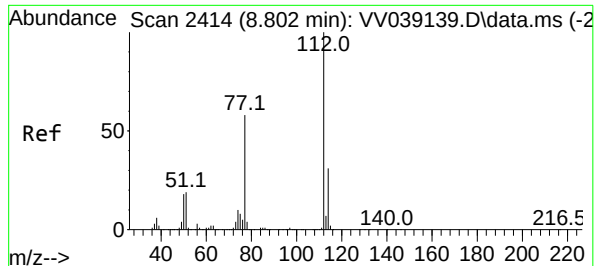
Delta R.T. -0.000 min

Lab File: VV039144.D

Acq: 22 Sep 2025 16:58

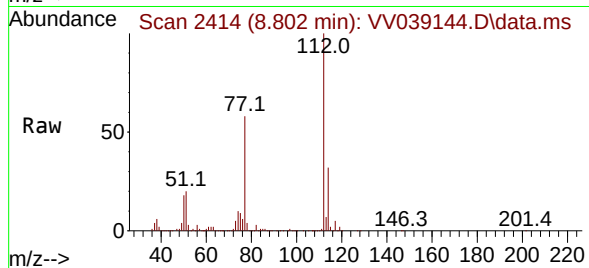
Tgt Ion:	164	Resp:	346271
Ion	Ratio	Lower	Upper
164	100		
166	127.5	101.6	152.4
129	99.6	78.5	117.7
131	96.7	76.8	115.2





#65
Chlorobenzene
Concen: 51.041 ug/l
RT: 8.802 min Scan# 2414
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

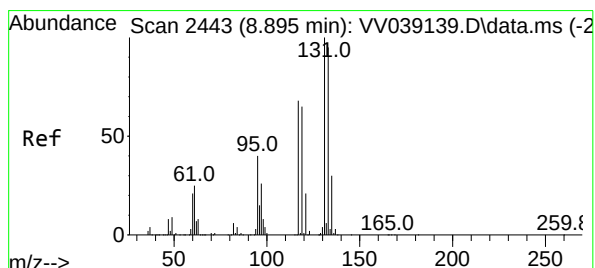
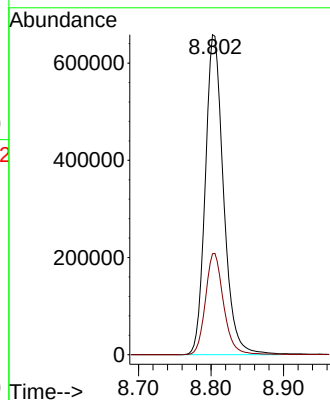
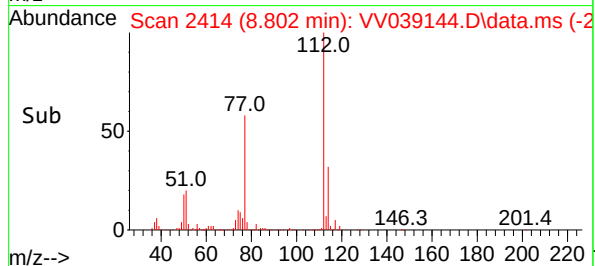
Instrument :
MSVOA_V
ClientSampleId :
ICVV092225



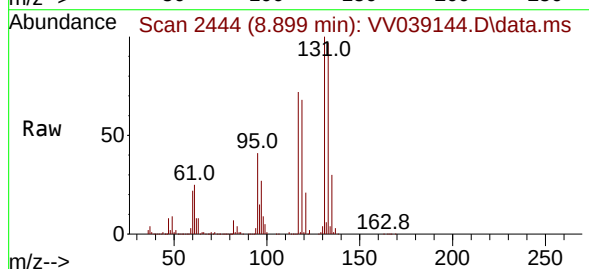
Tgt Ion:112 Resp: 115350
Ion Ratio Lower Upper
112 100
114 31.5 24.6 37.0

Manual Integrations
APPROVED

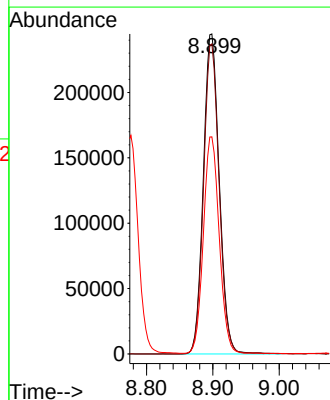
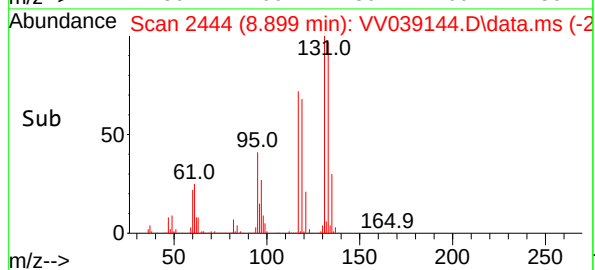
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

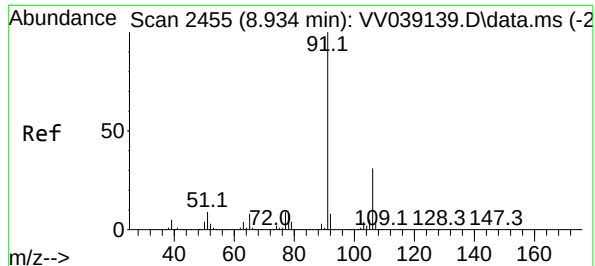


#66
1,1,1,2-Tetrachloroethane
Concen: 50.136 ug/l
RT: 8.899 min Scan# 2444
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58



Tgt Ion:131 Resp: 409401
Ion Ratio Lower Upper
131 100
133 94.8 47.3 141.8
119 66.9 33.3 99.8





#67

Ethyl Benzene

Concen: 57.438 ug/l

RT: 8.937 min Scan# 2456

Delta R.T. 0.003 min

Lab File: VV039144.D

Acq: 22 Sep 2025 16:58

Instrument :

MSVOA_V

ClientSampleId :

ICVV092225

Tgt Ion: 91 Resp: 196494

Ion Ratio Lower Upper

91 100

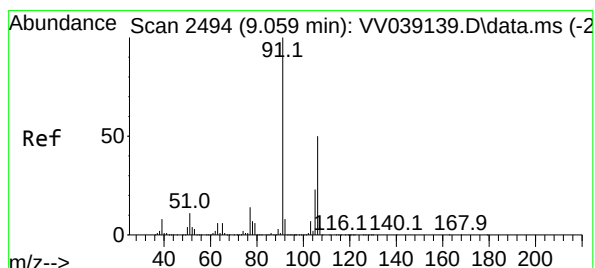
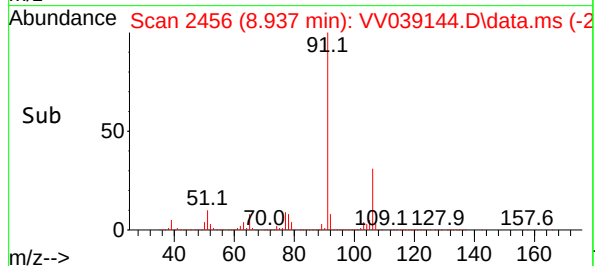
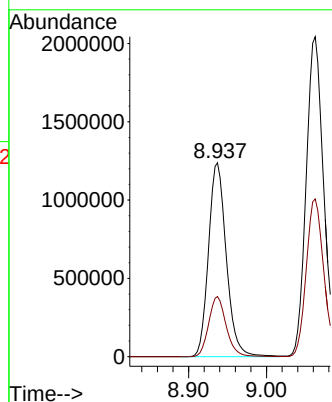
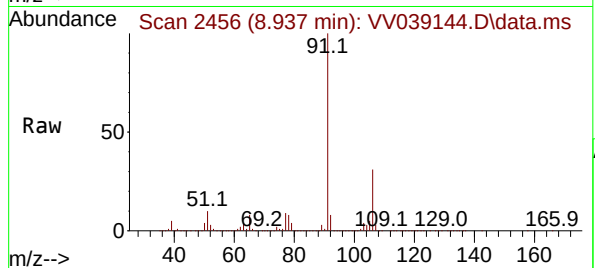
106 31.0 24.6 37.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025

Supervised By :Semsettin Yesilyurt 09/26/2025



#68

m/p-Xylenes

Concen: 120.582 ug/l

RT: 9.062 min Scan# 2495

Delta R.T. 0.003 min

Lab File: VV039144.D

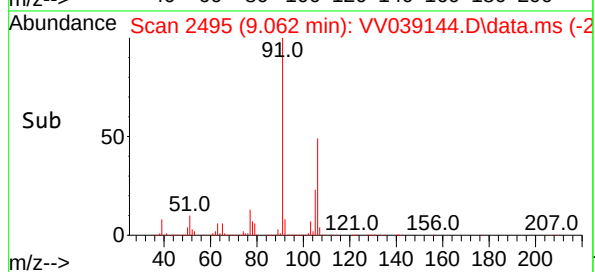
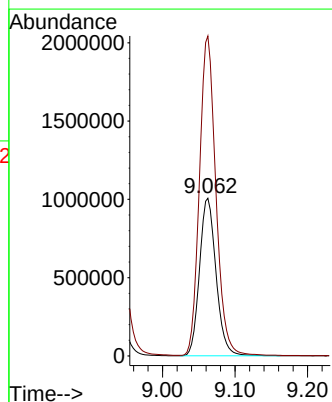
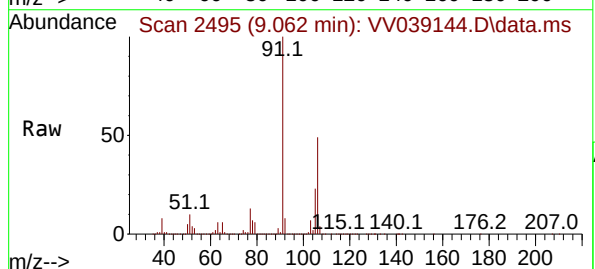
Acq: 22 Sep 2025 16:58

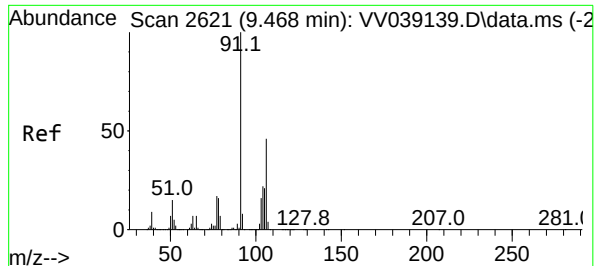
Tgt Ion:106 Resp: 1592118

Ion Ratio Lower Upper

106 100

91 203.1 162.5 243.7





#69

o-Xylene

Concen: 60.414 ug/l

RT: 9.468 min Scan# 2621

Delta R.T. -0.000 min

Lab File: VV039144.D

Acq: 22 Sep 2025 16:58

Instrument :

MSVOA_V

ClientSampleId :

ICVV092225

Tgt Ion:106 Resp: 70630

Ion Ratio Lower Upper

106 100

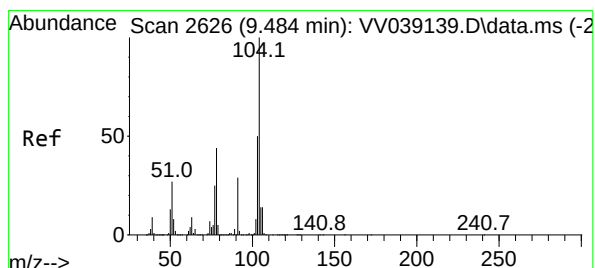
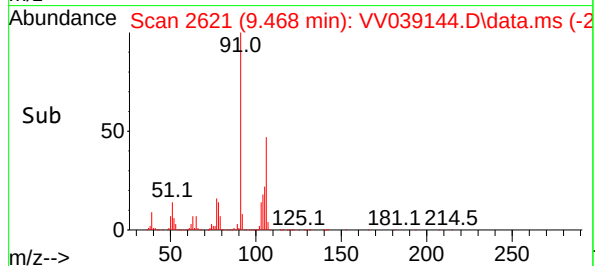
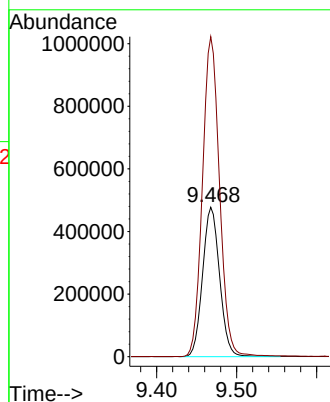
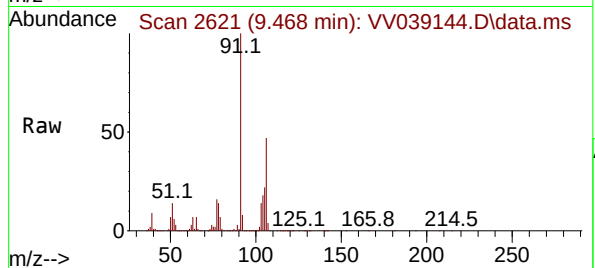
91 215.7 109.1 327.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025

Supervised By :Semsettin Yesilyurt 09/26/2025



#70

Styrene

Concen: 52.671 ug/l

RT: 9.484 min Scan# 2626

Delta R.T. -0.000 min

Lab File: VV039144.D

Acq: 22 Sep 2025 16:58

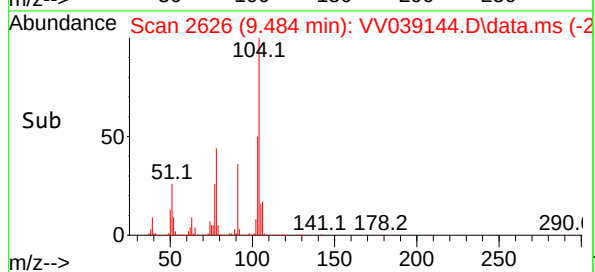
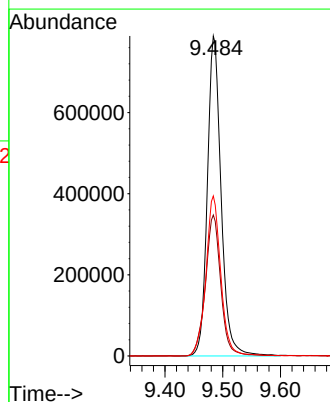
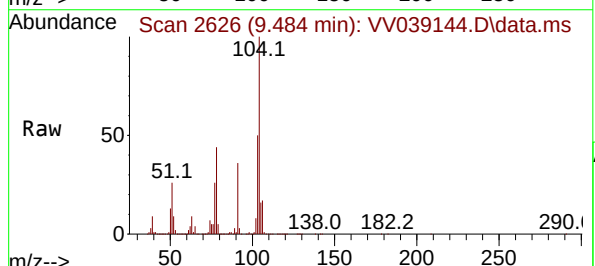
Tgt Ion:104 Resp: 1306032

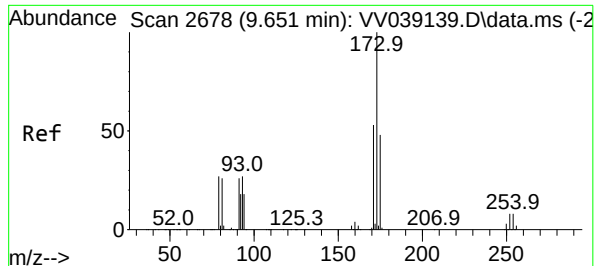
Ion Ratio Lower Upper

104 100

78 49.0 39.8 59.6

103 54.4 43.4 65.2





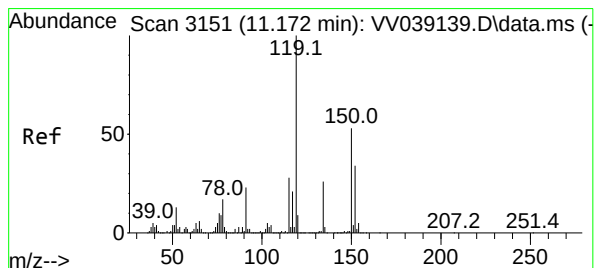
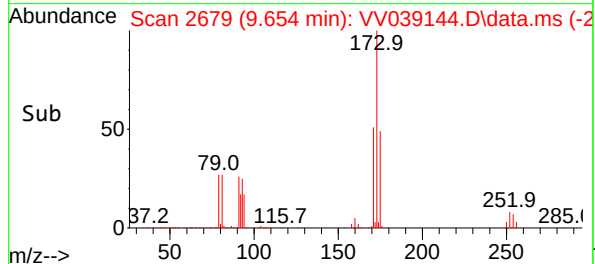
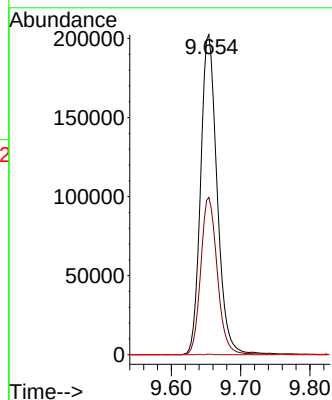
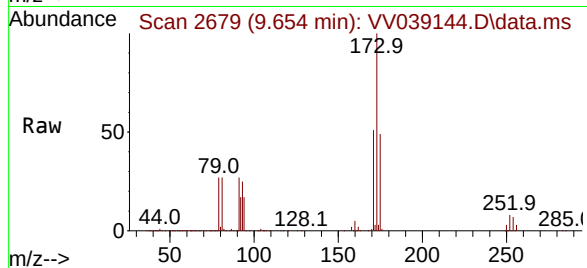
#71
Bromoform
Concen: 52.585 ug/l
RT: 9.654 min Scan# 2678
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Tgt Ion:173 Resp: 335410
Ion Ratio Lower Upper
173 100
175 49.3 23.9 71.7
254 0.1 0.1 0.1

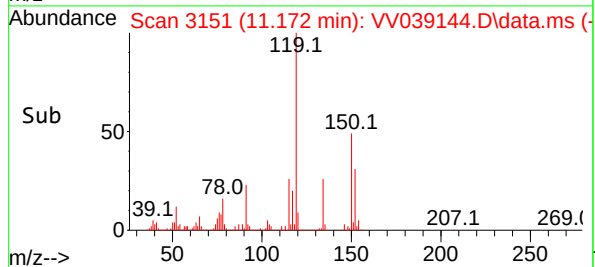
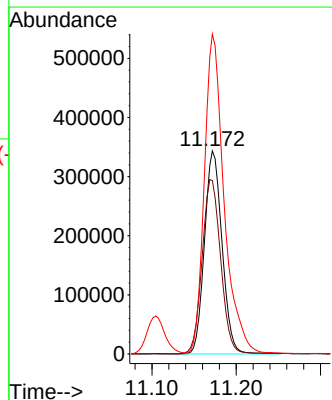
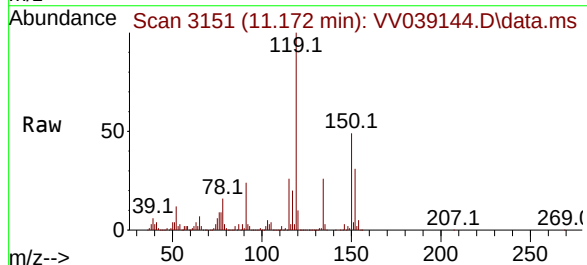
Manual Integrations
APPROVED

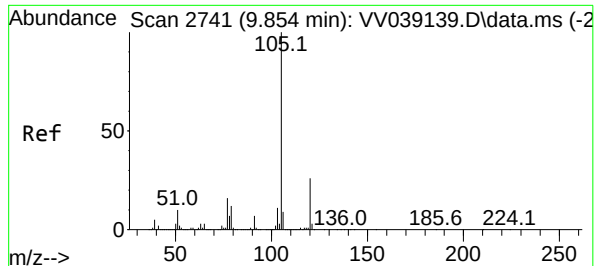
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3151
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

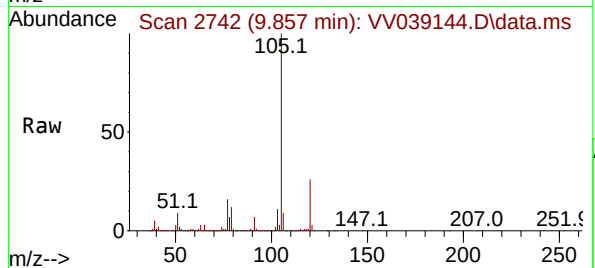
Tgt Ion:152 Resp: 500088
Ion Ratio Lower Upper
152 100
115 90.2 44.8 134.4
150 176.9 0.0 353.8





#73
Isopropylbenzene
Concen: 54.210 ug/l
RT: 9.857 min Scan# 2741
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

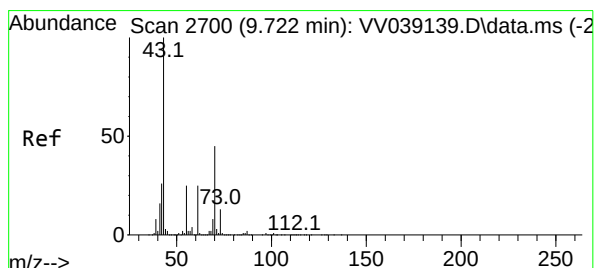
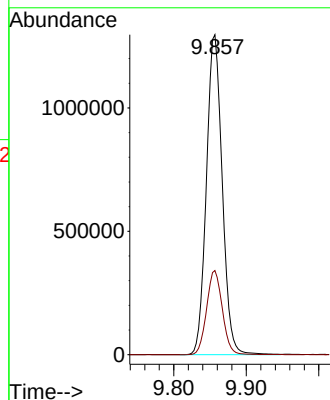
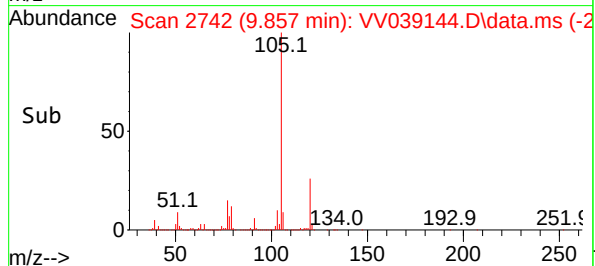
Instrument :
MSVOA_V
ClientSampleId :
ICVV092225



Tgt Ion:105 Resp: 1966280
Ion Ratio Lower Upper
105 100
120 26.1 13.1 39.1

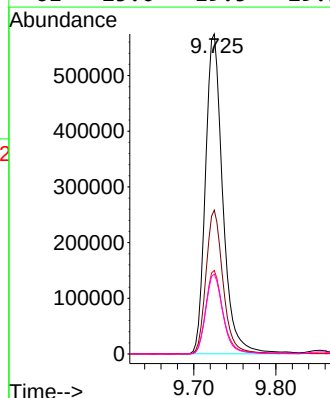
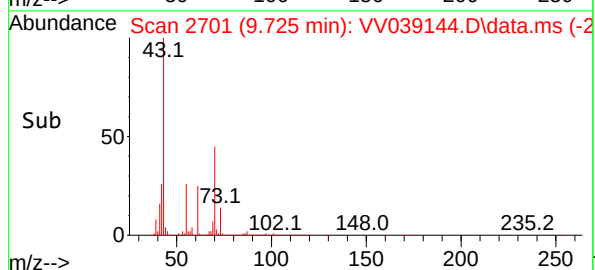
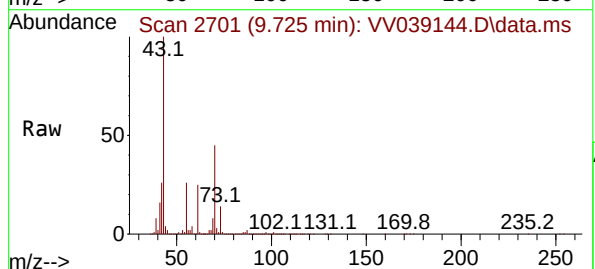
Manual Integrations
APPROVED

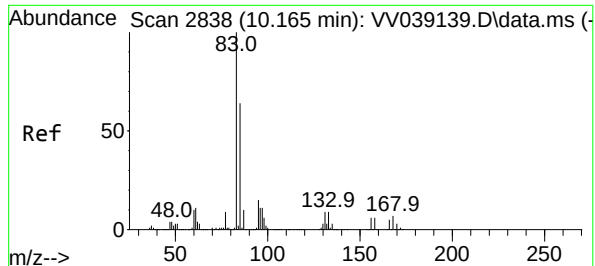
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#74
N-ethyl acetate
Concen: 58.135 ug/l
RT: 9.725 min Scan# 2701
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 43 Resp: 841099
Ion Ratio Lower Upper
43 100
70 44.4 35.4 53.0
55 26.0 20.6 30.8
61 25.0 19.5 29.3





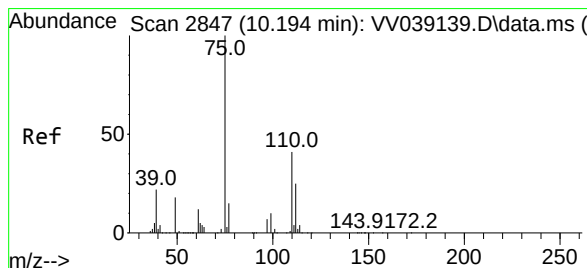
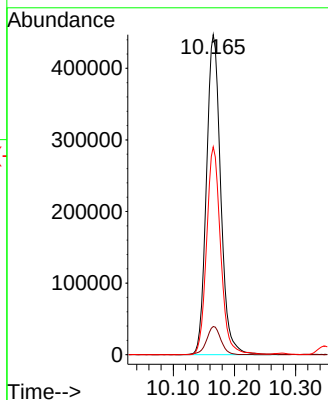
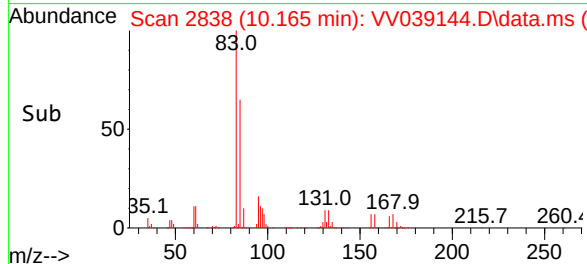
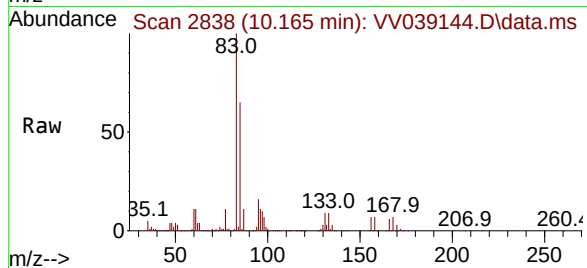
#75
1,1,2,2-Tetrachloroethane
Concen: 45.610 ug/l
RT: 10.165 min Scan# 2838
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Instrument :
MSVOA_V
ClientSampleId :
ICVV092225

Tgt Ion: 83 Resp: 724860
Ion Ratio Lower Upper
83 100
131 8.9 4.5 13.7
85 64.0 31.9 95.9

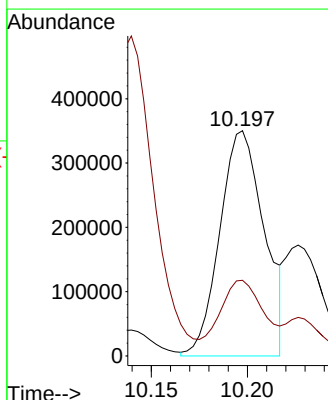
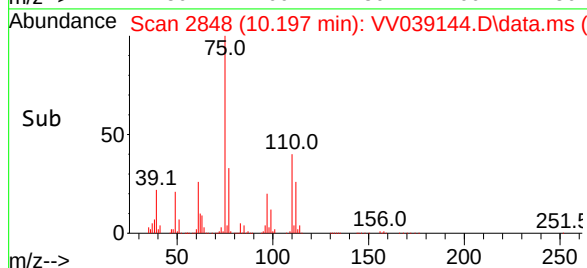
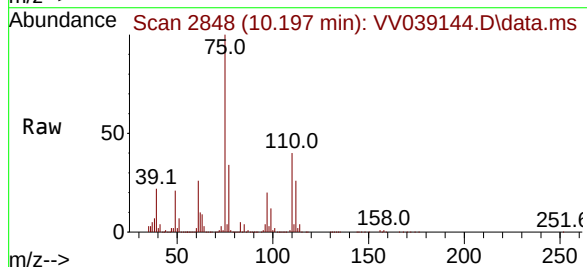
Manual Integrations
APPROVED

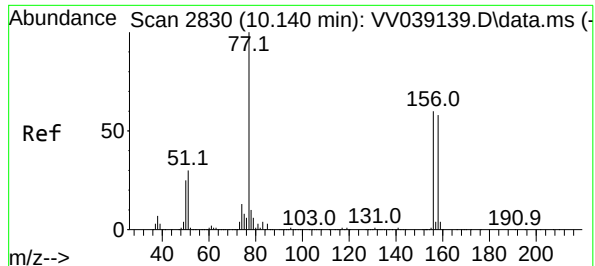
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#76
1,2,3-Trichloropropane
Concen: 49.515 ug/l m
RT: 10.197 min Scan# 2848
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 75 Resp: 563785
Ion Ratio Lower Upper
75 100
77 13.7 11.3 33.8





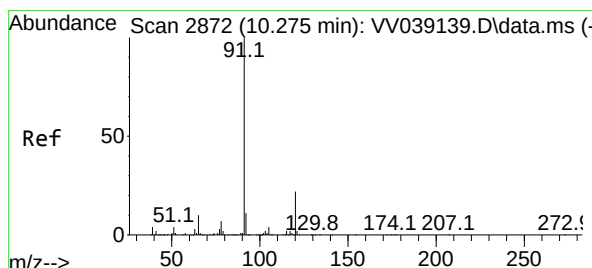
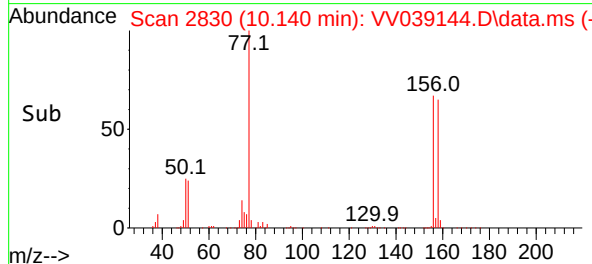
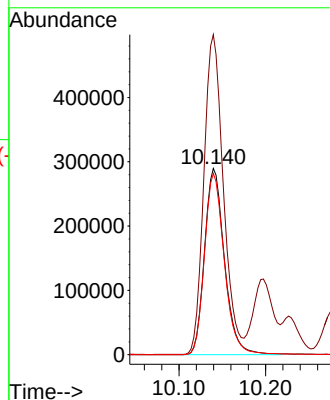
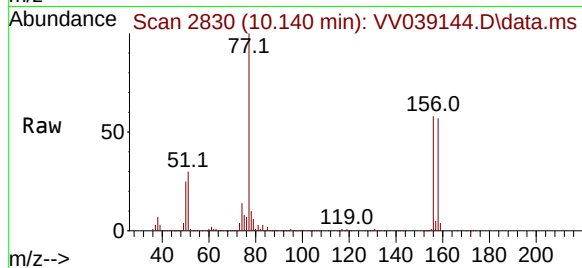
#77
Bromobenzene
Concen: 49.193 ug/l
RT: 10.140 min Scan# 2830
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Instrument :
MSVOA_V
ClientSampleId :
ICVV092225

Tgt Ion: 156 Resp: 46293
Ion Ratio Lower Upper
156 100
77 168.2 83.4 250.1
158 97.3 48.8 146.4

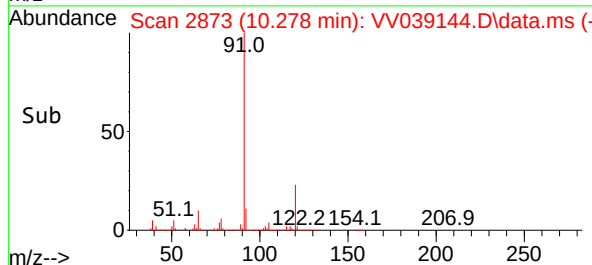
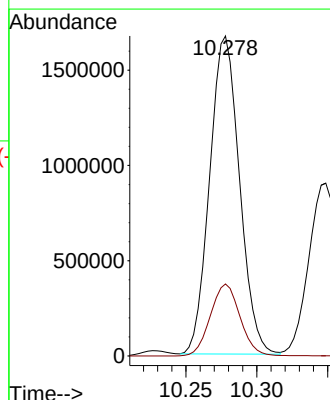
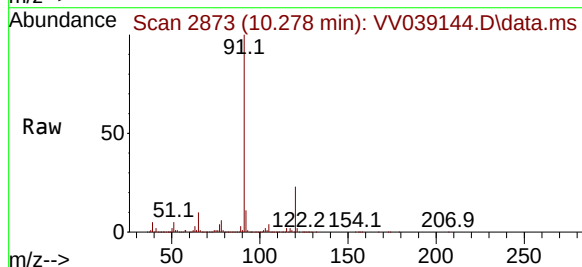
Manual Integrations
APPROVED

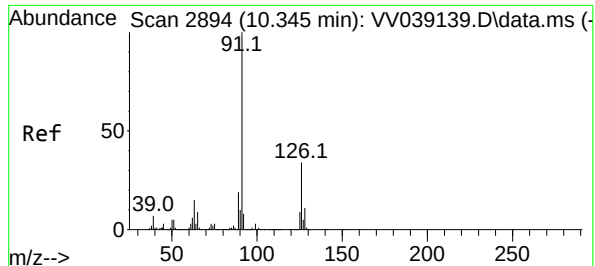
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#78
n-propylbenzene
Concen: 55.347 ug/l
RT: 10.278 min Scan# 2873
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 91 Resp: 2444658
Ion Ratio Lower Upper
91 100
120 22.6 11.1 33.3





#79

2-Chlorotoluene

Concen: 53.426 ug/l

RT: 10.349 min Scan# 2894

Delta R.T. 0.003 min

Lab File: VV039144.D

Acq: 22 Sep 2025 16:58

Instrument :

MSVOA_V

ClientSampleId :

ICVV092225

Tgt Ion: 91 Resp: 1412040

Ion Ratio Lower Upper

91 100

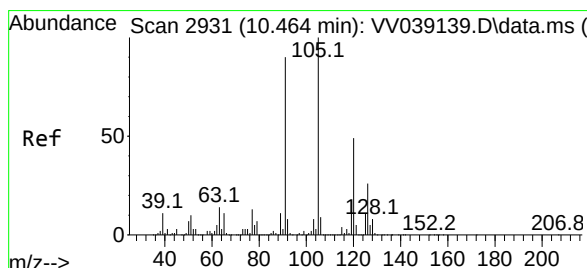
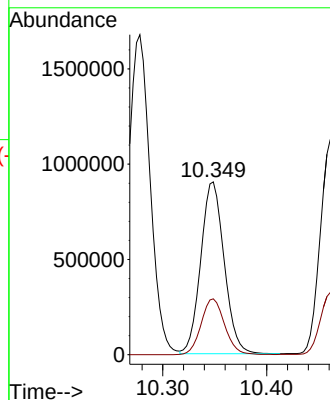
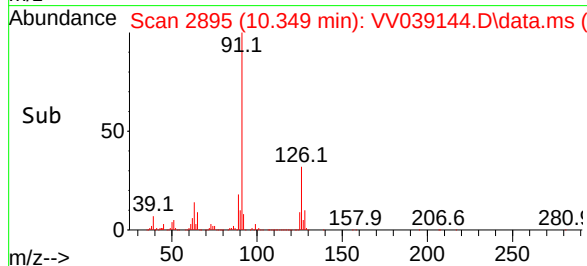
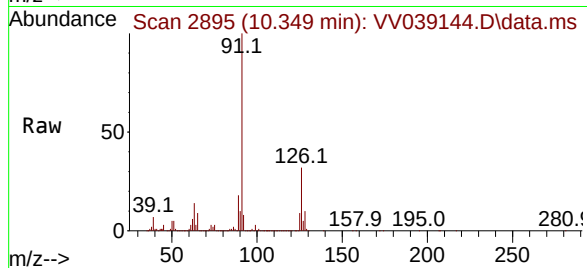
126 32.5 16.7 50.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025

Supervised By :Semsettin Yesilyurt 09/26/2025



#80

1,3,5-Trimethylbenzene

Concen: 56.698 ug/l

RT: 10.464 min Scan# 2931

Delta R.T. -0.000 min

Lab File: VV039144.D

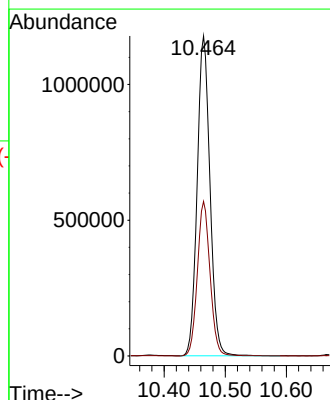
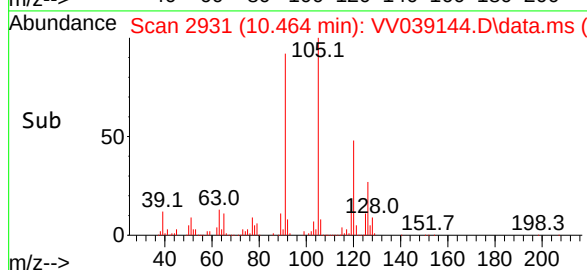
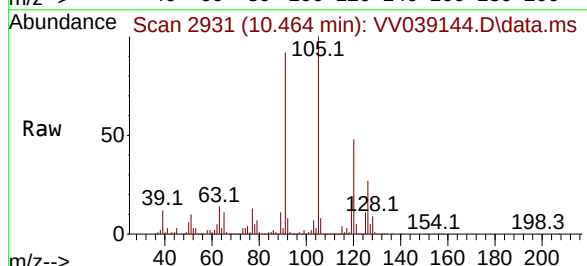
Acq: 22 Sep 2025 16:58

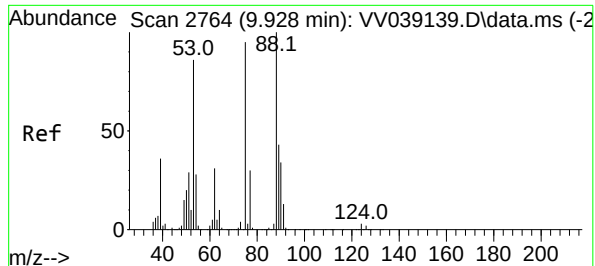
Tgt Ion:105 Resp: 1709353

Ion Ratio Lower Upper

105 100

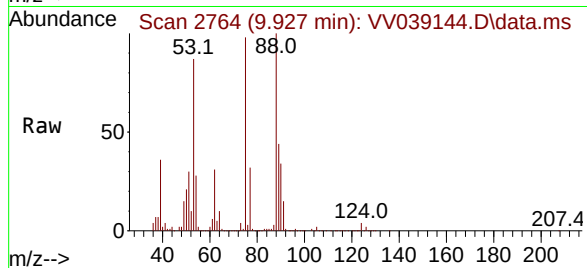
120 47.9 24.3 72.8





#81
trans-1,4-Dichloro-2-butene
Concen: 52.262 ug/l
RT: 9.927 min Scan# 21
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

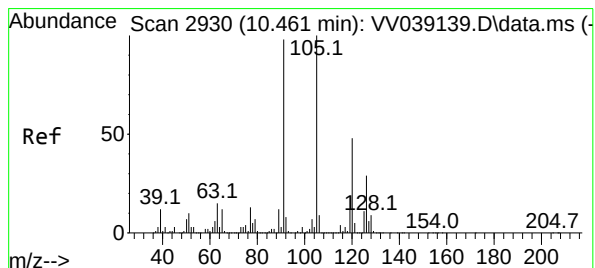
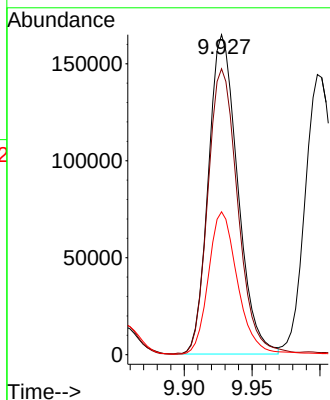
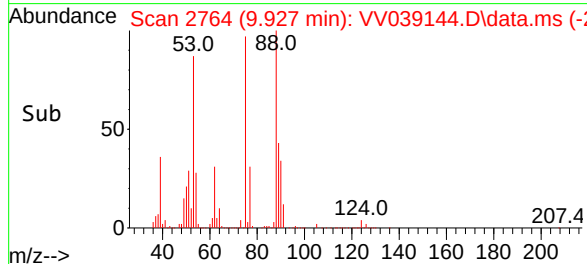
Instrument :
MSVOA_V
ClientSampleId :
ICVV092225



Tgt Ion: 75 Resp: 24787
Ion Ratio Lower Upper
75 100
53 90.6 72.5 108.7
89 44.6 37.2 55.8

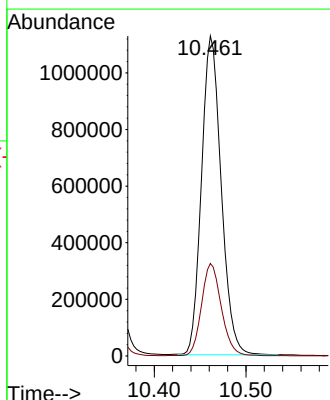
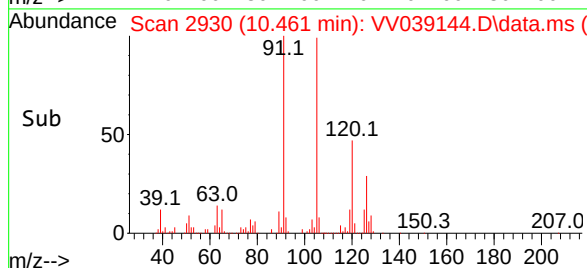
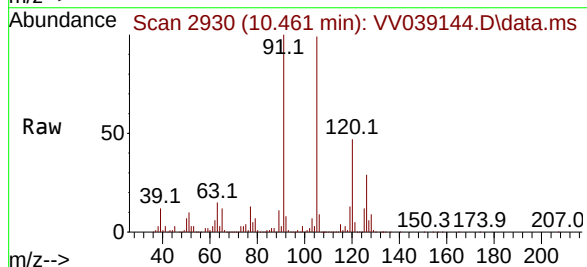
Manual Integrations
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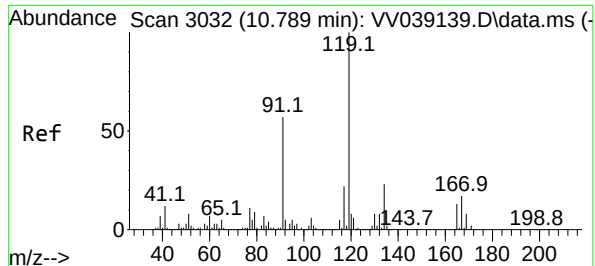
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#82
4-Chlorotoluene
Concen: 54.824 ug/l
RT: 10.461 min Scan# 2930
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 91 Resp: 1680201
Ion Ratio Lower Upper
91 100
126 28.9 14.5 43.6





#83

tert-Butylbenzene

Concen: 53.584 ug/l

RT: 10.789 min Scan# 3032

Delta R.T. -0.000 min

Lab File: VV039144.D

Acq: 22 Sep 2025 16:58

Instrument :

MSVOA_V

ClientSampleId :

ICVV092225

Tgt Ion:119 Resp: 1610870

Ion Ratio Lower Upper

119 100

91 57.1 28.5 85.6

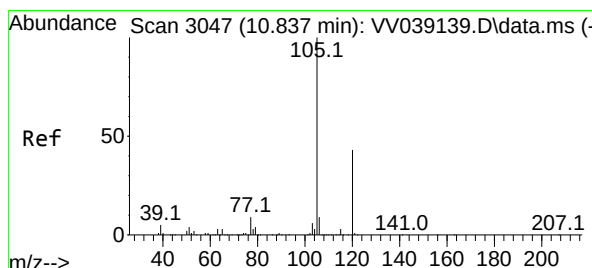
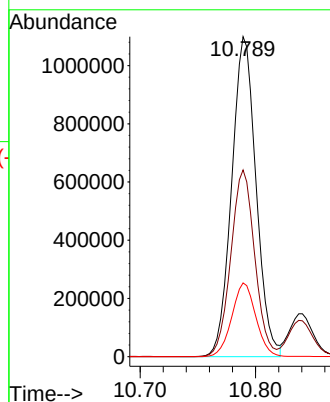
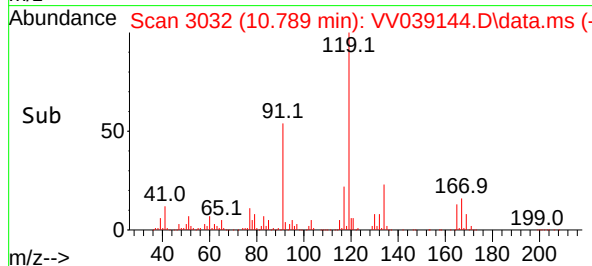
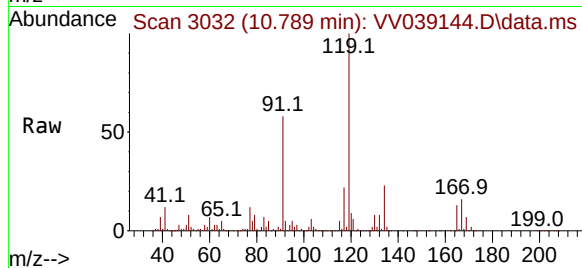
134 22.9 11.5 34.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025

Supervised By :Semsettin Yesilyurt 09/26/2025



#84

1,2,4-Trimethylbenzene

Concen: 57.944 ug/l

RT: 10.837 min Scan# 3047

Delta R.T. -0.000 min

Lab File: VV039144.D

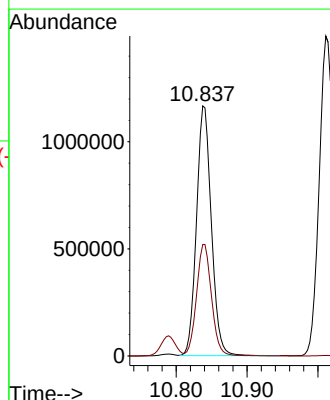
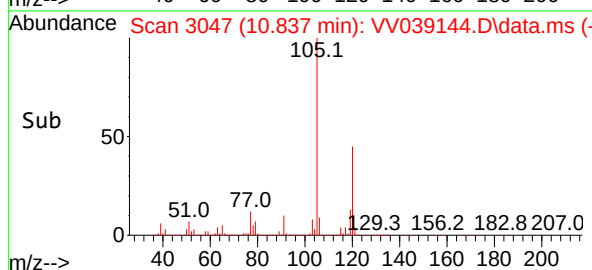
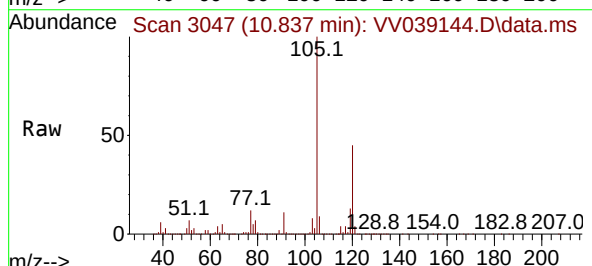
Acq: 22 Sep 2025 16:58

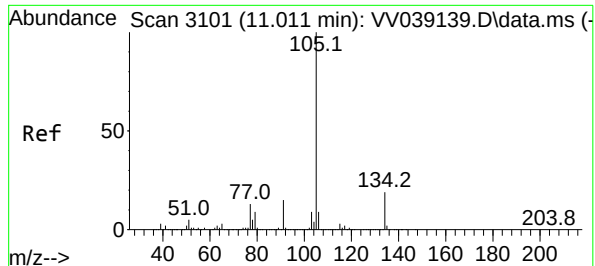
Tgt Ion:105 Resp: 1695994

Ion Ratio Lower Upper

105 100

120 45.0 22.4 67.2





#85

sec-Butylbenzene

Concen: 54.911 ug/l

RT: 11.011 min Scan# 3101

Delta R.T. -0.000 min

Lab File: VV039144.D

Acq: 22 Sep 2025 16:58

Instrument :

MSVOA_V

ClientSampleId :

ICVV092225

Tgt Ion:105 Resp: 2189540

Ion Ratio Lower Upper

105 100

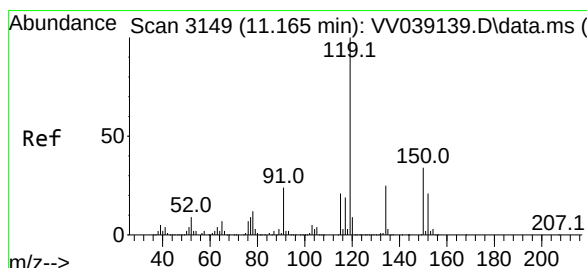
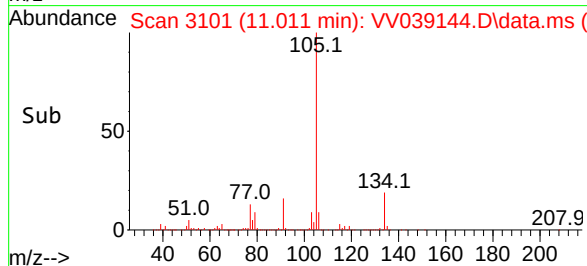
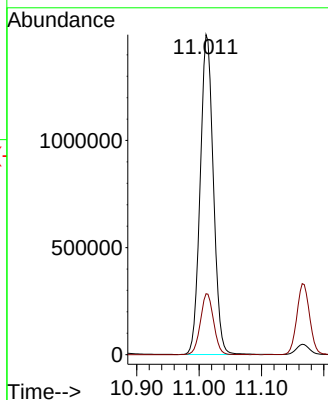
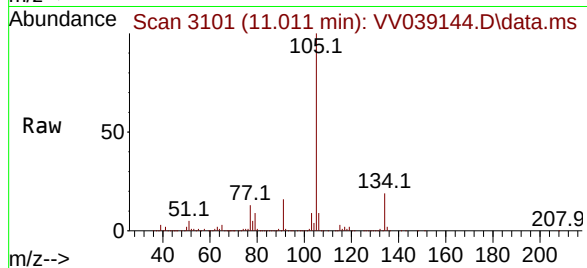
134 19.1 9.6 28.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025

Supervised By :Semsettin Yesilyurt 09/26/2025



#86

p-Isopropyltoluene

Concen: 55.495 ug/l

RT: 11.165 min Scan# 3149

Delta R.T. -0.000 min

Lab File: VV039144.D

Acq: 22 Sep 2025 16:58

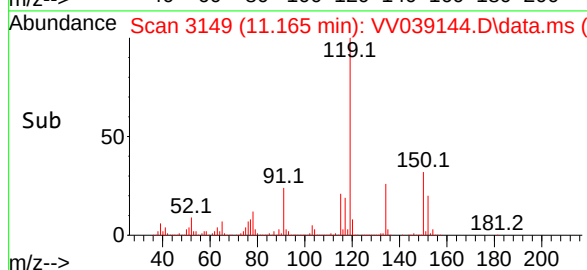
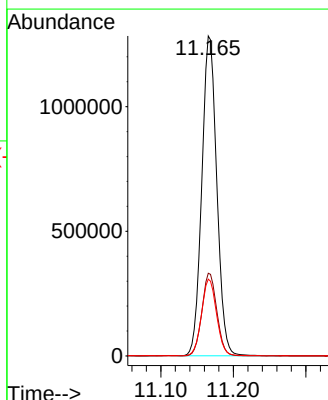
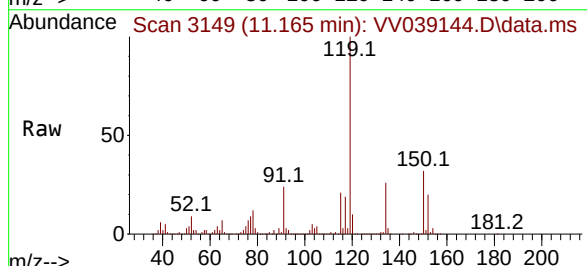
Tgt Ion:119 Resp: 1841747

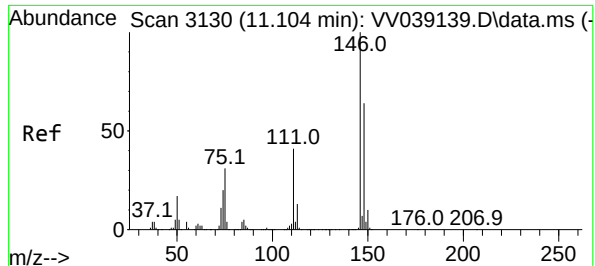
Ion Ratio Lower Upper

119 100

134 25.6 12.7 38.0

91 24.0 12.0 36.1





#87

1,3-Dichlorobenzene

Concen: 49.328 ug/l

RT: 11.104 min Scan# 3130

Delta R.T. -0.000 min

Lab File: VV039144.D

Acq: 22 Sep 2025 16:58

Instrument :

MSVOA_V

ClientSampleId :

ICVV092225

Tgt Ion:146 Resp: 93948

Ion Ratio Lower Upper

146 100

111 41.5 20.9 62.8

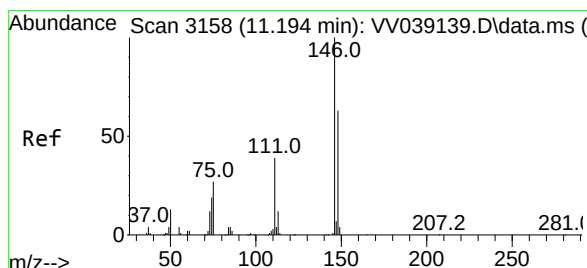
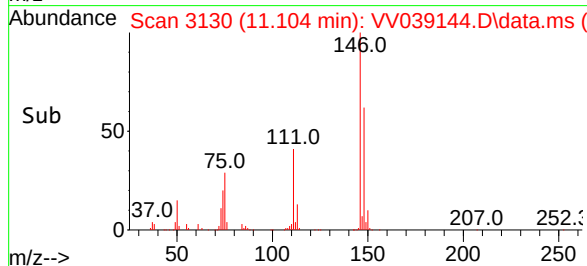
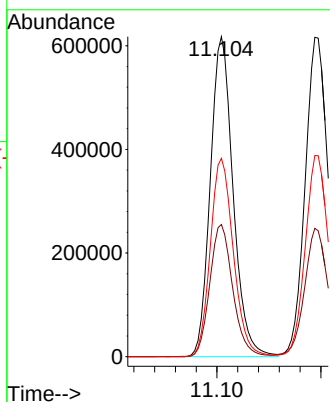
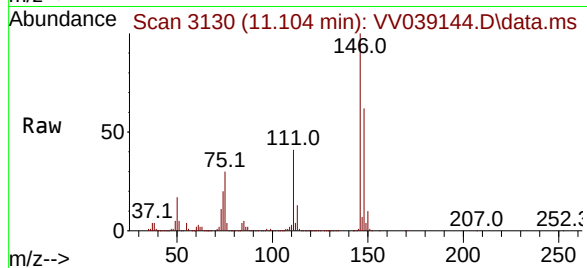
148 62.8 31.8 95.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025

Supervised By :Semsettin Yesilyurt 09/26/2025



#88

1,4-Dichlorobenzene

Concen: 46.502 ug/l

RT: 11.194 min Scan# 3158

Delta R.T. -0.000 min

Lab File: VV039144.D

Acq: 22 Sep 2025 16:58

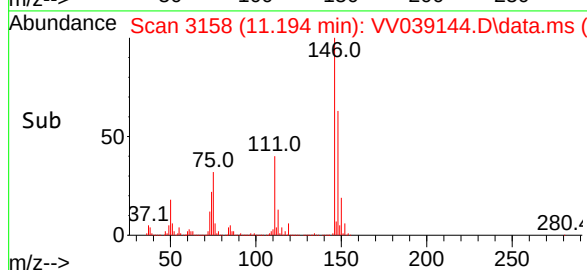
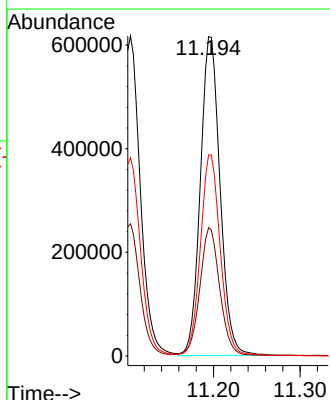
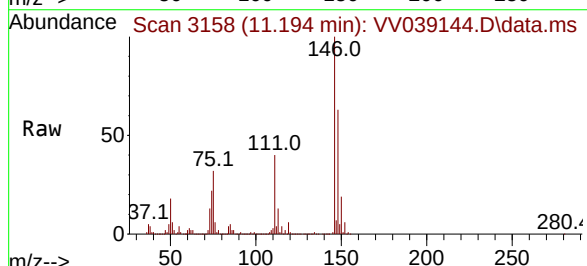
Tgt Ion:146 Resp: 971665

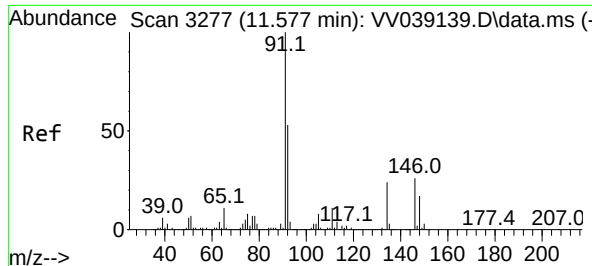
Ion Ratio Lower Upper

146 100

111 40.6 20.3 60.8

148 64.0 31.4 94.2





#89

n-Butylbenzene

Concen: 56.740 ug/l

RT: 11.580 min Scan# 3278

Delta R.T. 0.003 min

Lab File: VV039144.D

Acq: 22 Sep 2025 16:58

Instrument :

MSVOA_V

ClientSampleId :

ICVVV092225

Tgt Ion: 91 Resp: 179841

Ion Ratio Lower Upper

91 100

92 53.4 26.6 79.8

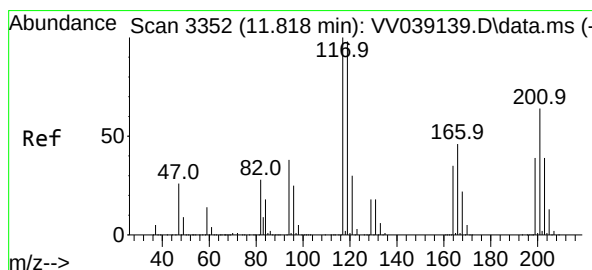
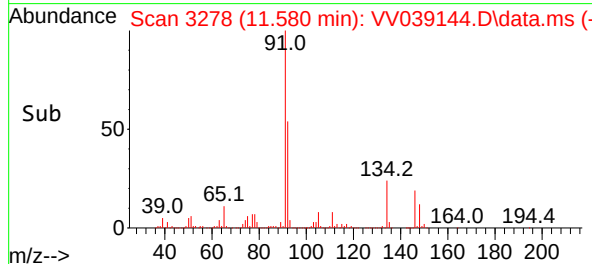
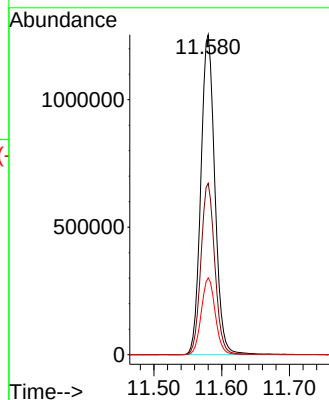
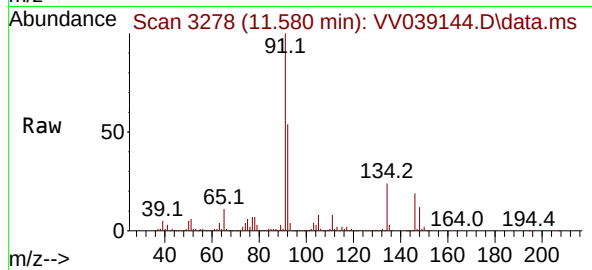
134 24.0 12.1 36.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025

Supervised By :Semsettin Yesilyurt 09/26/2025



#90

Hexachloroethane

Concen: 45.296 ug/l

RT: 11.818 min Scan# 3352

Delta R.T. -0.000 min

Lab File: VV039144.D

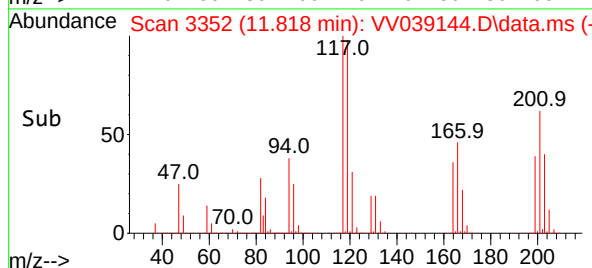
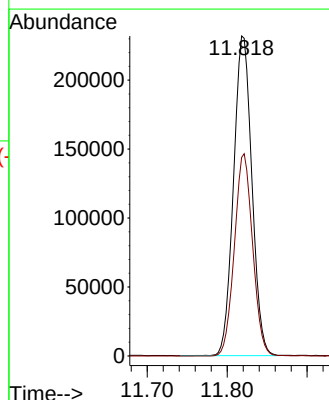
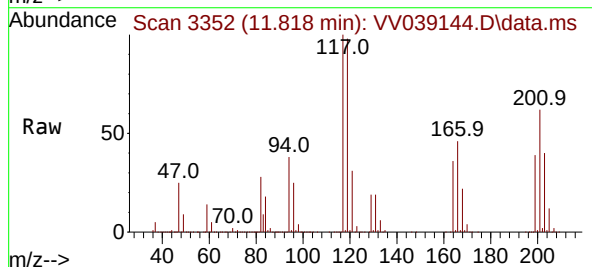
Acq: 22 Sep 2025 16:58

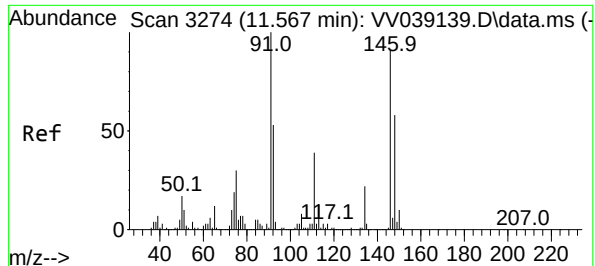
Tgt Ion:117 Resp: 370188

Ion Ratio Lower Upper

117 100

201 62.9 32.3 96.8





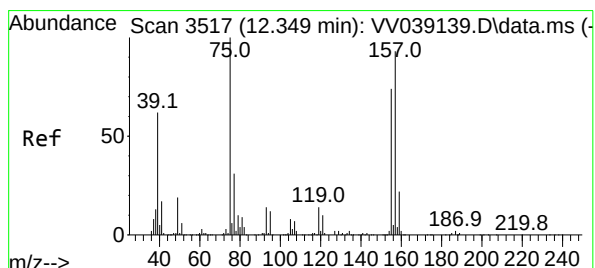
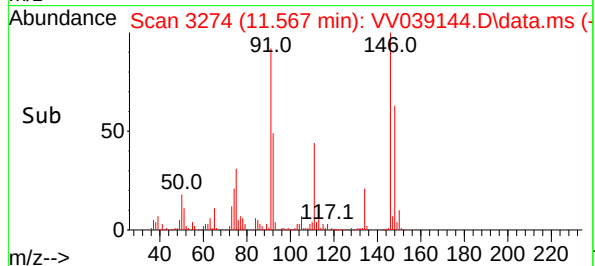
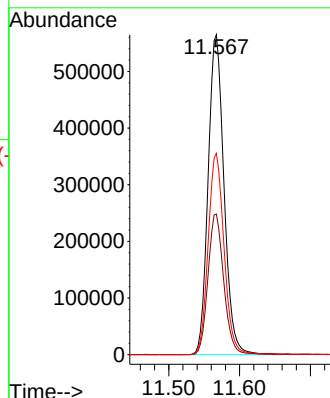
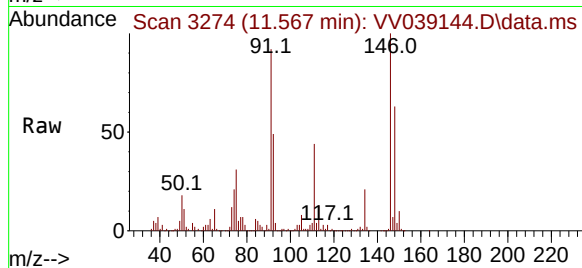
#91
1,2-Dichlorobenzene
Concen: 49.362 ug/l
RT: 11.567 min Scan# 31
Delta R.T. 0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Instrument :
MSVOA_V
ClientSampleId :
ICVV092225

Tgt Ion:146 Resp: 87834
Ion Ratio Lower Upper
146 100
111 43.8 21.5 64.5
148 63.4 31.9 95.7

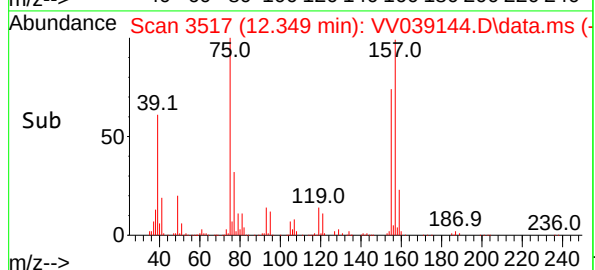
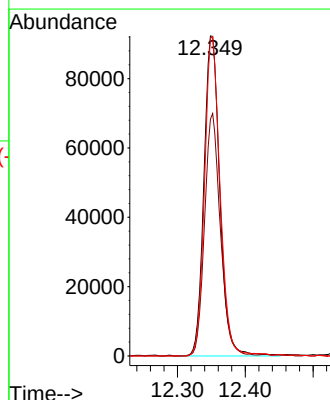
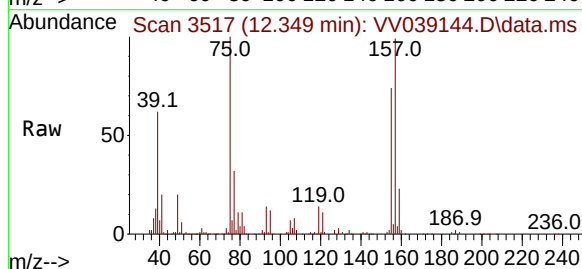
Manual Integrations
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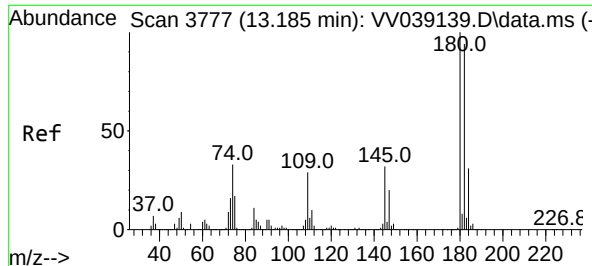
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 52.479 ug/l
RT: 12.349 min Scan# 3517
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 75 Resp: 150399
Ion Ratio Lower Upper
75 100
155 75.5 38.6 115.8
157 97.3 49.5 148.3





#93

1,2,4-Trichlorobenzene

Concen: 52.259 ug/l

RT: 13.185 min Scan# 3777

Delta R.T. -0.001 min

Lab File: VV039144.D

Acq: 22 Sep 2025 16:58

Instrument :

MSVOA_V

ClientSampleId :

ICVV092225

Tgt Ion:180 Resp: 533049

Ion Ratio Lower Upper

180 100

182 93.6 47.1 141.4

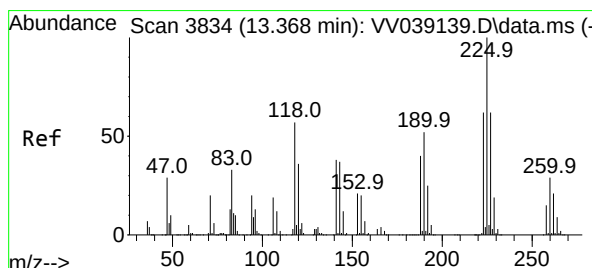
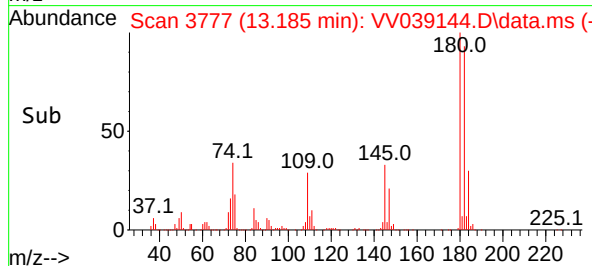
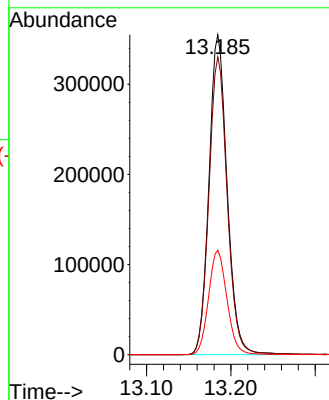
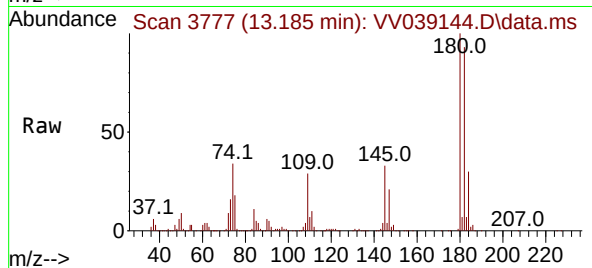
145 33.1 16.3 48.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025

Supervised By :Semsettin Yesilyurt 09/26/2025



#94

Hexachlorobutadiene

Concen: 45.942 ug/l

RT: 13.368 min Scan# 3834

Delta R.T. -0.000 min

Lab File: VV039144.D

Acq: 22 Sep 2025 16:58

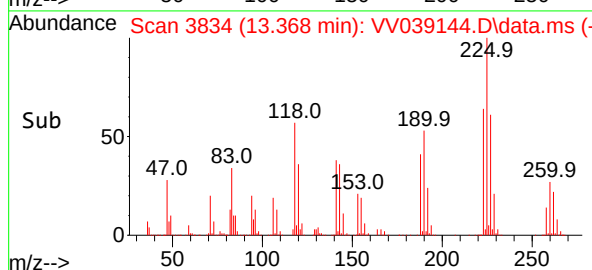
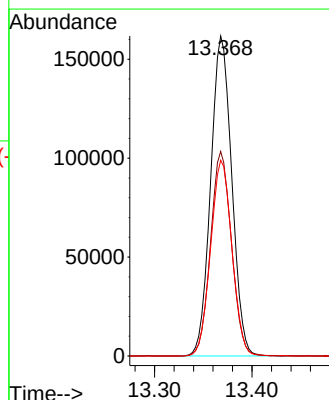
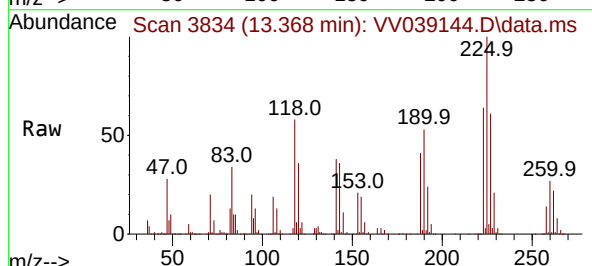
Tgt Ion:225 Resp: 243496

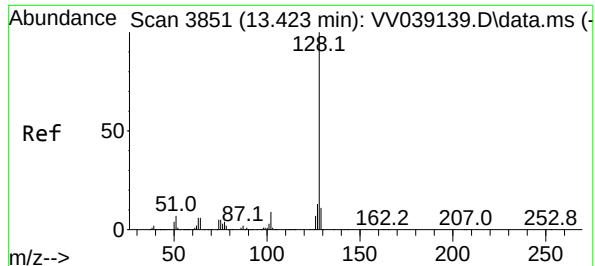
Ion Ratio Lower Upper

225 100

223 63.3 31.6 94.7

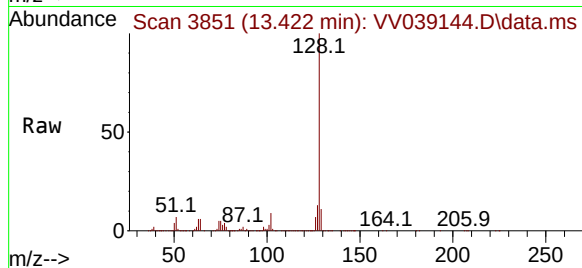
227 61.7 31.8 95.4





#95
Naphthalene
Concen: 58.231 ug/l
RT: 13.422 min Scan# 3851
Delta R.T. -0.001 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

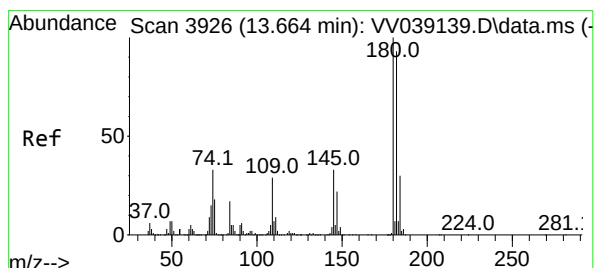
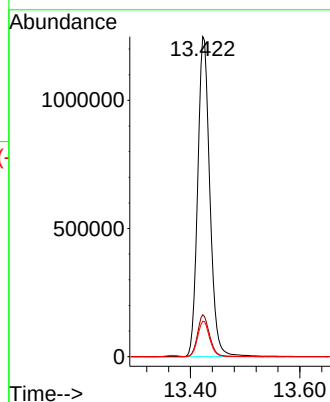
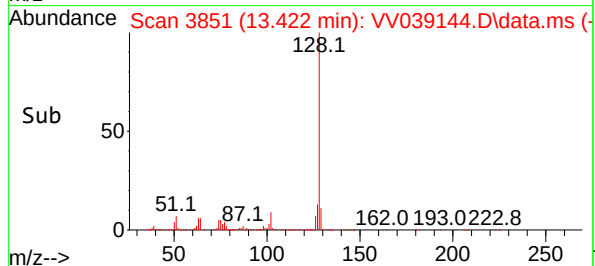
Instrument :
MSVOA_V
ClientSampleId :
ICVV092225



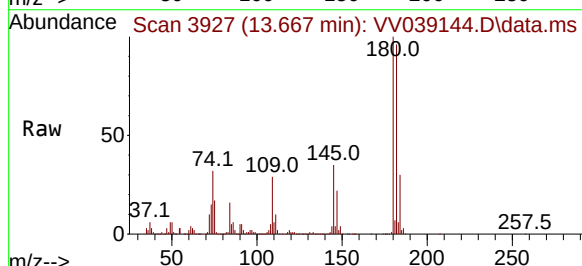
Tgt Ion:128 Resp: 1919772
Ion Ratio Lower Upper
128 100
127 13.0 10.3 15.5
129 10.9 8.6 13.0

Manual Integrations
APPROVED

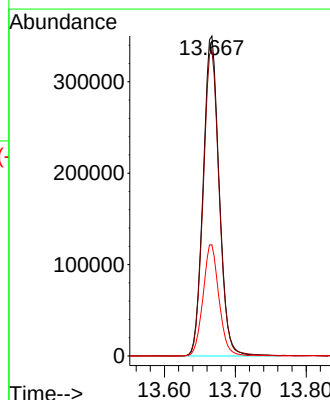
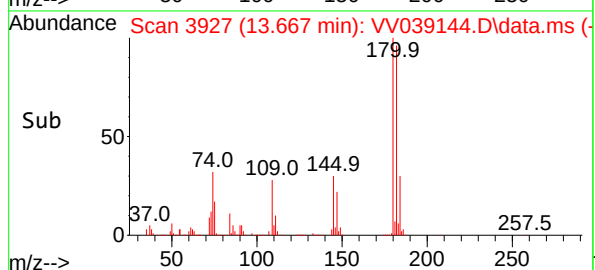
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#96
1,2,3-Trichlorobenzene
Concen: 52.633 ug/l
RT: 13.667 min Scan# 3927
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58



Tgt Ion:180 Resp: 549079
Ion Ratio Lower Upper
180 100
182 95.9 46.9 140.8
145 34.6 17.0 51.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039144.D
Acq On : 22 Sep 2025 16:58
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Quant Time: Sep 24 08:10:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	1.000	1.000	0.0	94	0.00
2 T	Dichlorodifluoromethane	0.791	0.716	9.5	91	0.00
3 P	Chloromethane	0.850	0.791	6.9	97	0.00
4 C	Vinyl Chloride	0.910	0.827	9.1#	93	0.00
5 T	Bromomethane	0.573	0.517	9.8	96	0.00
6 T	Chloroethane	0.631	0.544	13.8	96	0.00
7 T	Trichlorofluoromethane	1.317	1.224	7.1	97	0.00
8 T	Diethyl Ether	0.489	0.451	7.8	95	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.784	0.728	7.1	98	0.00
10 T	Methyl Iodide	0.746	0.743	0.4	89	0.00
11 T	Tert butyl alcohol	0.153	0.154	-0.7	106	0.00
12 CM	1,1-Dichloroethene	0.754	0.692	8.2#	97	0.00
13 T	Acrolein	0.027	0.029	-7.4	103	0.00
14 T	Allyl chloride	1.347	1.268	5.9	96	0.00
15 T	Acrylonitrile	0.490	0.470	4.1	101	0.00
16 T	Acetone	0.523	0.426	18.5	89	0.00
17 T	Carbon Disulfide	2.306	2.101	8.9	95	0.00
18 T	Methyl Acetate	1.072	1.063	0.8	102	0.00
19 T	Methyl tert-butyl Ether	2.402	2.269	5.5	96	0.00
20 T	Methylene Chloride	1.066	0.804	24.6#	97	0.00
21 T	trans-1,2-Dichloroethene	0.803	0.737	8.2	96	0.00
22 T	Diisopropyl ether	2.576	2.554	0.9	95	0.00
23 T	Vinyl Acetate	2.254	2.241	0.6	96	0.00
24 P	1,1-Dichloroethane	1.576	1.435	8.9	97	0.00
25 T	2-Butanone	0.579	0.607	-4.8	98	0.00
26 T	2,2-Dichloropropane	1.397	1.222	12.5	93	0.00
27 T	cis-1,2-Dichloroethene	0.885	0.867	2.0	94	0.00
28 T	Bromochloromethane	0.696	0.725	-4.2	101	0.00
29 T	Tetrahydrofuran	0.363	0.401	-10.5	102	0.00
30 C	Chloroform	1.645	1.546	6.0#	98	0.00
31 T	Cyclohexane	1.291	1.234	4.4	93	0.00
32 T	1,1,1-Trichloroethane	1.424	1.337	6.1	97	0.00
33 S	1,2-Dichloroethane-d4	0.724	0.695	4.0	101	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	92	0.00
35 S	Dibromofluoromethane	0.402	0.409	-1.7	99	0.00
36 T	1,1-Dichloropropene	0.608	0.654	-7.6	97	0.00
37 T	Ethyl Acetate	0.737	0.768	-4.2	99	0.00
38 T	Carbon Tetrachloride	0.743	0.735	1.1	96	0.00
39 T	Methylcyclohexane	0.734	0.843	-14.9	94	0.00
40 TM	Benzene	1.979	2.070	-4.6	96	0.00
41 T	Methacrylonitrile	0.273	0.345	-26.4#	96	0.00
42 TM	1,2-Dichloroethane	0.693	0.711	-2.6	98	0.00
43 T	Isopropyl Acetate	1.005	1.126	-12.0	97	0.00
44 TM	Trichloroethene	0.457	0.468	-2.4	93	0.00
45 C	1,2-Dichloropropane	0.492	0.536	-8.9#	98	0.00
46 T	Dibromomethane	0.376	0.385	-2.4	96	0.00
47 T	Bromodichloromethane	0.778	0.797	-2.4	97	0.00
48 T	Methyl methacrylate	0.456	0.539	-18.2	98	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039144.D
Acq On : 22 Sep 2025 16:58
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Quant Time: Sep 24 08:10:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	0.007	0.008	-14.3	102	0.00
50 S	Toluene-d8	1.181	1.232	-4.3	100	0.00
51 T	4-Methyl-2-Pentanone	0.661	0.802	-21.3#	101	0.00
52 CM	Toluene	1.147	1.297	-13.1#	97	0.00
53 T	t-1,3-Dichloropropene	0.678	0.757	-11.7	96	0.00
54 T	cis-1,3-Dichloropropene	0.749	0.841	-12.3	95	0.00
55 T	1,1,2-Trichloroethane	0.514	0.527	-2.5	98	0.00
56 T	Ethyl methacrylate	0.611	0.743	-21.6#	95	0.00
57 T	1,3-Dichloropropane	0.812	0.873	-7.5	98	0.00
58 T	2-Chloroethyl Vinyl ether	0.267	0.359	-34.5#	93	0.00
59 T	2-Hexanone	0.463	0.600	-29.6#	101	0.00
60 T	Dibromochloromethane	0.586	0.609	-3.9	99	0.00
61 T	1,2-Dibromoethane	0.526	0.561	-6.7	97	0.00
62 S	4-Bromofluorobenzene	0.486	0.552	-13.6	100	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	94	0.00
64 T	Tetrachloroethene	0.419	0.427	-1.9	97	0.00
65 PM	Chlorobenzene	1.393	1.422	-2.1	97	0.00
66 T	1,1,1,2-Tetrachloroethane	0.503	0.505	-0.4	97	0.00
67 C	Ethyl Benzene	2.108	2.422	-14.9#	95	0.00
68 T	m/p-Xylenes	0.814	0.981	-20.5#	97	0.00
69 T	o-Xylene	0.720	0.871	-21.0#	97	0.00
70 T	Styrene	1.263	1.610	-27.5#	97	0.00
71 P	Bromoform	0.393	0.413	-5.1	98	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	97	0.00
73 T	Isopropylbenzene	3.627	3.932	-8.4	97	0.00
74 T	N-amyl acetate	1.447	1.682	-16.2	97	0.00
75 P	1,1,2,2-Tetrachloroethane	1.589	1.449	8.8	99	0.00
76 T	1,2,3-Trichloropropane	1.138	1.127	1.0	104	0.00
77 T	Bromobenzene	0.941	0.926	1.6	97	0.00
78 T	n-propylbenzene	4.416	4.888	-10.7	97	0.00
79 T	2-Chlorotoluene	2.643	2.824	-6.8	97	0.00
80 T	1,3,5-Trimethylbenzene	3.014	3.418	-13.4	98	0.00
81 T	trans-1,4-Dichloro-2-butene	0.474	0.496	-4.6	97	0.00
82 T	4-Chlorotoluene	3.064	3.360	-9.7	98	0.00
83 T	tert-Butylbenzene	3.006	3.221	-7.2	97	0.00
84 T	1,2,4-Trimethylbenzene	2.926	3.391	-15.9	97	0.00
85 T	sec-Butylbenzene	3.987	4.378	-9.8	97	0.00
86 T	p-Isopropyltoluene	3.318	3.683	-11.0	97	0.00
87 T	1,3-Dichlorobenzene	1.904	1.879	1.3	98	0.00
88 T	1,4-Dichlorobenzene	2.089	1.943	7.0	97	0.00
89 T	n-Butylbenzene	3.169	3.596	-13.5	96	0.00
90 T	Hexachloroethane	0.817	0.740	9.4	99	0.00
91 T	1,2-Dichlorobenzene	1.779	1.756	1.3	98	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.330	0.301	8.8	102	0.00
93 T	1,2,4-Trichlorobenzene	1.020	1.066	-4.5	96	0.00
94 T	Hexachlorobutadiene	0.530	0.487	8.1	98	0.00
95 T	Naphthalene	3.296	3.839	-16.5	98	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039144.D
Acq On : 22 Sep 2025 16:58
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Quant Time: Sep 24 08:10:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	1.043	1.098	-5.3	96	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039144.D
Acq On : 22 Sep 2025 16:58
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Quant Time: Sep 24 08:10:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	50.000	50.000	0.0	94	0.00
2 T	Dichlorodifluoromethane	50.000	45.238	9.5	91	0.00
3 P	Chloromethane	50.000	46.523	7.0	97	0.00
4 C	Vinyl Chloride	50.000	45.467	9.1#	93	0.00
5 T	Bromomethane	50.000	45.085	9.8	96	0.00
6 T	Chloroethane	50.000	50.873	-1.7	96	0.00
7 T	Trichlorofluoromethane	50.000	46.452	7.1	97	0.00
8 T	Diethyl Ether	50.000	46.136	7.7	95	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	46.465	7.1	98	0.00
10 T	Methyl Iodide	50.000	49.783	0.4	89	0.00
11 T	Tert butyl alcohol	250.000	252.173	-0.9	106	0.00
12 CM	1,1-Dichloroethene	50.000	45.922	8.2#	97	0.00
13 T	Acrolein	250.000	271.925	-8.8	103	0.00
14 T	Allyl chloride	50.000	47.092	5.8	96	0.00
15 T	Acrylonitrile	250.000	239.637	4.1	101	0.00
16 T	Acetone	250.000	237.325	5.1	89	0.00
17 T	Carbon Disulfide	50.000	45.563	8.9	95	0.00
18 T	Methyl Acetate	50.000	49.579	0.8	102	0.00
19 T	Methyl tert-butyl Ether	50.000	47.223	5.6	96	0.00
20 T	Methylene Chloride	50.000	51.536	-3.1	97	0.00
21 T	trans-1,2-Dichloroethene	50.000	45.915	8.2	96	0.00
22 T	Diisopropyl ether	50.000	49.556	0.9	95	0.00
23 T	Vinyl Acetate	250.000	248.597	0.6	96	0.00
24 P	1,1-Dichloroethane	50.000	45.536	8.9	97	0.00
25 T	2-Butanone	250.000	262.050	-4.8	98	0.00
26 T	2,2-Dichloropropane	50.000	43.721	12.6	93	0.00
27 T	cis-1,2-Dichloroethene	50.000	48.960	2.1	94	0.00
28 T	Bromochloromethane	50.000	52.149	-4.3	101	0.00
29 T	Tetrahydrofuran	250.000	276.528	-10.6	102	0.00
30 C	Chloroform	50.000	46.980	6.0#	98	0.00
31 T	Cyclohexane	50.000	47.799	4.4	93	0.00
32 T	1,1,1-Trichloroethane	50.000	46.922	6.2	97	0.00
33 S	1,2-Dichloroethane-d4	50.000	48.041	3.9	101	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	92	0.00
35 S	Dibromofluoromethane	50.000	50.832	-1.7	99	0.00
36 T	1,1-Dichloropropene	50.000	53.809	-7.6	97	0.00
37 T	Ethyl Acetate	50.000	52.050	-4.1	99	0.00
38 T	Carbon Tetrachloride	50.000	49.452	1.1	96	0.00
39 T	Methylcyclohexane	50.000	57.426	-14.9	94	0.00
40 TM	Benzene	50.000	52.293	-4.6	96	0.00
41 T	Methacrylonitrile	50.000	51.602	-3.2	96	0.00
42 TM	1,2-Dichloroethane	50.000	51.245	-2.5	98	0.00
43 T	Isopropyl Acetate	50.000	55.998	-12.0	97	0.00
44 TM	Trichloroethene	50.000	51.216	-2.4	93	0.00
45 C	1,2-Dichloropropane	50.000	54.495	-9.0#	98	0.00
46 T	Dibromomethane	50.000	51.116	-2.2	96	0.00
47 T	Bromodichloromethane	50.000	51.232	-2.5	97	0.00
48 T	Methyl methacrylate	50.000	59.104	-18.2	98	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039144.D
Acq On : 22 Sep 2025 16:58
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Quant Time: Sep 24 08:10:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	1000.000	1133.346	-13.3	102	0.00
50 S	Toluene-d8	50.000	52.199	-4.4	100	0.00
51 T	4-Methyl-2-Pentanone	250.000	303.119	-21.2#	101	0.00
52 CM	Toluene	50.000	56.517	-13.0#	97	0.00
53 T	t-1,3-Dichloropropene	50.000	55.823	-11.6	96	0.00
54 T	cis-1,3-Dichloropropene	50.000	56.154	-12.3	95	0.00
55 T	1,1,2-Trichloroethane	50.000	51.231	-2.5	98	0.00
56 T	Ethyl methacrylate	50.000	60.810	-21.6#	95	0.00
57 T	1,3-Dichloropropane	50.000	53.769	-7.5	98	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	259.936	-4.0	93	0.00
59 T	2-Hexanone	250.000	280.545	-12.2	101	0.00
60 T	Dibromochloromethane	50.000	51.926	-3.9	99	0.00
61 T	1,2-Dibromoethane	50.000	53.295	-6.6	97	0.00
62 S	4-Bromofluorobenzene	50.000	56.823	-13.6	100	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	94	0.00
64 T	Tetrachloroethene	50.000	50.954	-1.9	97	0.00
65 PM	Chlorobenzene	50.000	51.041	-2.1	97	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	50.136	-0.3	97	0.00
67 C	Ethyl Benzene	50.000	57.438	-14.9#	95	0.00
68 T	m/p-Xylenes	100.000	120.582	-20.6#	97	0.00
69 T	o-Xylene	50.000	60.414	-20.8#	97	0.00
70 T	Styrene	50.000	52.671	-5.3	97	0.00
71 P	Bromoform	50.000	52.585	-5.2	98	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	97	0.00
73 T	Isopropylbenzene	50.000	54.210	-8.4	97	0.00
74 T	N-amyl acetate	50.000	58.135	-16.3	97	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	45.610	8.8	99	0.00
76 T	1,2,3-Trichloropropane	50.000	49.515	1.0	104	0.00
77 T	Bromobenzene	50.000	49.193	1.6	97	0.00
78 T	n-propylbenzene	50.000	55.347	-10.7	97	0.00
79 T	2-Chlorotoluene	50.000	53.426	-6.9	97	0.00
80 T	1,3,5-Trimethylbenzene	50.000	56.698	-13.4	98	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	52.262	-4.5	97	0.00
82 T	4-Chlorotoluene	50.000	54.824	-9.6	98	0.00
83 T	tert-Butylbenzene	50.000	53.584	-7.2	97	0.00
84 T	1,2,4-Trimethylbenzene	50.000	57.944	-15.9	97	0.00
85 T	sec-Butylbenzene	50.000	54.911	-9.8	97	0.00
86 T	p-Isopropyltoluene	50.000	55.495	-11.0	97	0.00
87 T	1,3-Dichlorobenzene	50.000	49.328	1.3	98	0.00
88 T	1,4-Dichlorobenzene	50.000	46.502	7.0	97	0.00
89 T	n-Butylbenzene	50.000	56.740	-13.5	96	0.00
90 T	Hexachloroethane	50.000	45.296	9.4	99	0.00
91 T	1,2-Dichlorobenzene	50.000	49.362	1.3	98	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	52.479	-5.0	102	0.00
93 T	1,2,4-Trichlorobenzene	50.000	52.259	-4.5	96	0.00
94 T	Hexachlorobutadiene	50.000	45.942	8.1	98	0.00
95 T	Naphthalene	50.000	58.231	-16.5	98	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039144.D
Acq On : 22 Sep 2025 16:58
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Quant Time: Sep 24 08:10:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	52.633	-5.3	96	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>LOCK01</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3254</u>
Instrument ID:	<u>MSVOA_V</u>	Calibration Date/Time:	<u>10/03/2025</u> <u>08:53</u>
Lab File ID:	<u>VV039242.D</u>	Init. Calib. Date(s):	<u>09/22/2025</u> <u>09/22/2025</u>
Heated Purge: (Y/N)	<u>N</u>	Init. Calib. Time(s):	<u>12:26</u> <u>16:35</u>
GC Column:	<u>DB-624UI</u>	ID:	<u>0.18</u> (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Vinyl Chloride	0.910	0.797		-12.42	20
Chloroethane	0.631	0.533		-15.53	20
Trichlorofluoromethane	1.317	1.296		-1.6	20
1,1-Dichloroethene	0.754	0.737		-2.26	20
Acrylonitrile	0.490	0.450		-8.16	20
Acetone	0.523	0.465		-11.09	20
Carbon Disulfide	2.306	1.914		-17	20
Methylene Chloride	1.066	0.842		-21.01	20
Vinyl Acetate	2.254	2.045		-9.27	20
2-Butanone	0.579	0.545		-5.87	20
Carbon Tetrachloride	0.743	0.816		9.82	20
cis-1,2-Dichloroethene	0.885	0.850		-3.95	20
Bromochloromethane	0.696	0.695		-0.14	20
Chloroform	1.645	1.541		-6.32	20
1,1,1-Trichloroethane	1.424	1.326		-6.88	20
Benzene	1.979	2.157		8.99	20
1,2-Dichloropropane	0.492	0.557		13.21	20
Dibromomethane	0.376	0.419		11.44	20
Bromodichloromethane	0.778	0.870		11.82	20
4-Methyl-2-Pentanone	0.661	0.770		16.49	20
Toluene	1.147	1.390		21.19	20
t-1,3-Dichloropropene	0.678	0.811		19.62	20
cis-1,3-Dichloropropene	0.749	0.891		18.96	20
2-Hexanone	0.463	0.579		25.05	20
Dibromochloromethane	0.586	0.698		19.11	20
1,2-Dibromoethane	0.526	0.621		18.06	20
Tetrachloroethene	0.419	0.472		12.65	20
Chlorobenzene	1.393	1.547	0.3	10.98	20
1,1,1,2-Tetrachloroethane	0.503	0.582		15.71	20
Ethyl Benzene	2.108	2.531		20.07	20
m/p-Xylenes	0.814	1.051		29.11	20
o-Xylene	0.720	0.926		28.61	20
Styrene	1.263	1.770		40.14	20
Bromoform	0.393	0.490	0.1	24.68	20
1,1,2,2-Tetrachloroethane	1.589	1.472	0.3	-7.36	20
1,2,3-Trichloropropane	1.138	1.053		-7.47	20
1,4-Dichlorobenzene	2.089	2.097		0.38	20
1,2-Dichlorobenzene	1.779	1.851		4.05	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>LOCK01</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3254</u>
Instrument ID:	<u>MSVOA_V</u>	Calibration Date/Time:	<u>10/03/2025</u> <u>08:53</u>
Lab File ID:	<u>VV039242.D</u>	Init. Calib. Date(s):	<u>09/22/2025</u> <u>09/22/2025</u>
Heated Purge: (Y/N)	<u>N</u>	Init. Calib. Time(s):	<u>12:26</u> <u>16:35</u>
GC Column:	<u>DB-624UI</u>	ID:	<u>0.18</u> (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
1,2-Dibromo-3-Chloropropane	0.330	0.287		-13.03	20
1,2-Dichloroethane-d4	0.724	0.604		-16.58	20
Dibromofluoromethane	0.402	0.442		9.95	20
Toluene-d8	1.181	1.194		1.1	20
4-Bromofluorobenzene	0.486	0.586		20.58	20
Methyl Iodide	0.746	0.854		14.48	20
trans-1,4-Dichloro-2-butene	0.474	0.497		4.85	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV100325\
 Data File : VV039242.D
 Acq On : 03 Oct 2025 08:53
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDCCC050

Quant Time: Oct 08 07:59:21 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 24 08:08:08 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	4.596	168	504801	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.532	114	717875	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.773	117	718198	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	467640	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.941	65	305033	41.751	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery =	83.500%		
35) Dibromofluoromethane	4.497	113	317481	55.012	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery =	110.020%		
50) Toluene-d8	7.233	98	856835	50.551	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery =	101.100%		
62) 4-Bromofluorobenzene	9.998	95	420941	60.326	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery =	120.660%#		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.121	85	342379	42.846	ug/l	98
3) Chloromethane	1.230	50	355916	41.489	ug/l	98
4) Vinyl Chloride	1.298	62	402428	43.819	ug/l	99
5) Bromomethane	1.494	94	264412	45.671	ug/l	100
6) Chloroethane	1.561	64	269107	49.756	ug/l	99
7) Trichlorofluoromethane	1.725	101	654327	49.210	ug/l	100
8) Diethyl Ether	1.918	74	239899	48.601	ug/l	91
9) 1,1,2-Trichlorotrifluo...	2.082	101	393714	49.765	ug/l	96
10) Methyl Iodide	2.198	142	430956	57.201	ug/l	98
11) Tert butyl alcohol	2.564	59	340440	220.472	ug/l	100
12) 1,1-Dichloroethene	2.082	96	371821	48.853	ug/l	90
13) Acrolein	2.011	56	42535	158.748	ug/l	99
14) Allyl chloride	2.359	41	613293	45.110	ug/l	96
15) Acrylonitrile	2.670	53	1136973	229.692	ug/l	99
16) Acetone	2.117	43	1174504	261.128	ug/l	97
17) Carbon Disulfide	2.252	76	966224	41.510	ug/l	100
18) Methyl Acetate	2.378	43	577040	53.306	ug/l	97
19) Methyl tert-butyl Ether	2.709	73	1228261	50.644	ug/l	99
20) Methylene Chloride	2.455	84	425236	54.174	ug/l	94
21) trans-1,2-Dichloroethene	2.699	96	391729	48.346	ug/l	94
22) Diisopropyl ether	3.214	45	1227079	47.173	ug/l	98
23) Vinyl Acetate	3.185	43	5161912	226.848	ug/l	97
24) 1,1-Dichloroethane	3.117	63	742092	46.651	ug/l	98
25) 2-Butanone	3.860	43	1375343	235.085	ug/l	96
26) 2,2-Dichloropropane	3.809	77	617550	43.784	ug/l	98
27) cis-1,2-Dichloroethene	3.818	96	429074	48.015	ug/l	96
28) Bromochloromethane	4.143	49	350614	49.928	ug/l	90
29) Tetrahydrofuran	4.230	42	862839	235.626	ug/l	97
30) Chloroform	4.275	83	778110	46.845	ug/l	97
31) Cyclohexane	4.580	56	534129	40.990	ug/l	99
32) 1,1,1-Trichloroethane	4.510	97	669151	46.532	ug/l	98
36) 1,1-Dichloropropene	4.741	75	477305	54.703	ug/l	98
37) Ethyl Acetate	3.969	43	518087	48.933	ug/l	97
38) Carbon Tetrachloride	4.731	117	585594	54.914	ug/l	99
39) Methylcyclohexane	6.047	83	540367	51.283	ug/l	99
40) Benzene	5.008	78	1548631	54.504	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV100325\
 Data File : VV039242.D
 Acq On : 03 Oct 2025 08:53
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDCCC050

Quant Time: Oct 08 07:59:21 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 24 08:08:08 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.156	41	240482	50.227	ug/l	97
42) 1,2-Dichloroethane	5.037	62	529233	53.160	ug/l	99
43) Isopropyl Acetate	5.188	43	783601	54.281	ug/l	98
44) Trichloroethene	5.828	130	380227	57.993	ug/l	98
45) 1,2-Dichloropropane	6.085	63	399651	56.590	ug/l	98
46) Dibromomethane	6.223	93	300983	55.683	ug/l	93
47) Bromodichloromethane	6.423	83	624205	55.859	ug/l	98
48) Methyl methacrylate	6.294	41	359934	55.003	ug/l	95
49) 1,4-Dioxane	6.288	88	108875	1030.978	ug/l	99
51) 4-Methyl-2-Pentanone	7.146	43	2763632	290.997	ug/l	97
52) Toluene	7.307	92	997722	60.564	ug/l	98
53) t-1,3-Dichloropropene	7.571	75	581937	59.756	ug/l	99
54) cis-1,3-Dichloropropene	6.944	75	639668	59.500	ug/l	97
55) 1,1,2-Trichloroethane	7.757	97	428052	57.949	ug/l	98
56) Ethyl methacrylate	7.712	69	556268	63.413	ug/l	94
57) 1,3-Dichloropropane	7.931	76	675609	57.955	ug/l	99
58) 2-Chloroethyl Vinyl ether	6.809	63	1190479	240.718	ug/l	97
59) 2-Hexanone	8.059	43	2076495	270.676	ug/l	97
60) Dibromochloromethane	8.165	129	501215	59.550	ug/l	98
61) 1,2-Dibromoethane	8.272	107	445928	59.030	ug/l	98
64) Tetrachloroethene	7.895	164	339185	56.385	ug/l	96
65) Chlorobenzene	8.802	112	1110690	55.521	ug/l	98
66) 1,1,1,2-Tetrachloroethane	8.895	131	418344	57.876	ug/l	100
67) Ethyl Benzene	8.934	91	1817939	60.034	ug/l	99
68) m/p-Xylenes	9.059	106	1508955	129.107	ug/l	98
69) o-Xylene	9.468	106	665107	64.270	ug/l	97
70) Styrene	9.484	104	1271498	57.814	ug/l	98
71) Bromoform	9.651	173	351628	62.277	ug/l #	98
73) Isopropylbenzene	9.853	105	1831320	53.992	ug/l	99
74) N-amyl acetate	9.722	43	723655	53.488	ug/l	96
75) 1,1,2,2-Tetrachloroethane	10.165	83	688542	46.331	ug/l	100
76) 1,2,3-Trichloropropane	10.194	75	492632	46.268	ug/l	99
77) Bromobenzene	10.140	156	468225	53.208	ug/l	95
78) n-propylbenzene	10.275	91	2234110	54.089	ug/l	98
79) 2-Chlorotoluene	10.345	91	1348583	54.565	ug/l	99
80) 1,3,5-Trimethylbenzene	10.461	105	1593104	56.508	ug/l	100
81) trans-1,4-Dichloro-2-b...	9.927	75	232306	52.378	ug/l	96
82) 4-Chlorotoluene	10.461	91	1616280	56.397	ug/l	99
83) tert-Butylbenzene	10.789	119	1488535	52.950	ug/l	98
84) 1,2,4-Trimethylbenzene	10.837	105	1600180	58.464	ug/l	99
85) sec-Butylbenzene	11.011	105	1923460	51.585	ug/l	99
86) p-Isopropyltoluene	11.165	119	1652409	53.245	ug/l	100
87) 1,3-Dichlorobenzene	11.104	146	934365	52.464	ug/l	100
88) 1,4-Dichlorobenzene	11.194	146	980583	50.185	ug/l	99
89) n-Butylbenzene	11.577	91	1558810	52.593	ug/l	99
90) Hexachloroethane	11.818	117	339116	44.374	ug/l	97
91) 1,2-Dichlorobenzene	11.564	146	865428	52.011	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.349	75	134431	50.268	ug/l	92
93) 1,2,4-Trichlorobenzene	13.185	180	511938	53.672	ug/l	98
94) Hexachlorobutadiene	13.368	225	219349	44.258	ug/l	99
95) Naphthalene	13.422	128	1812807	58.802	ug/l	100
96) 1,2,3-Trichlorobenzene	13.664	180	536779	55.024	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV100325\
Data File : VV039242.D
Acq On : 03 Oct 2025 08:53
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

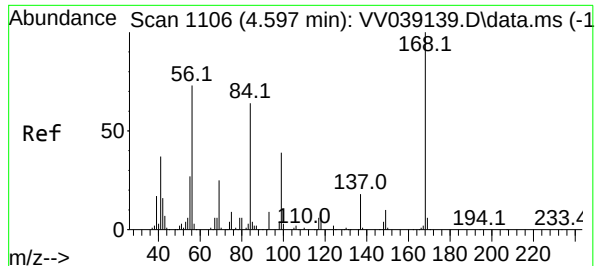
Quant Time: Oct 08 07:59:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

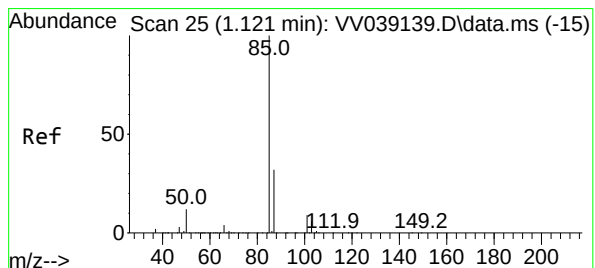
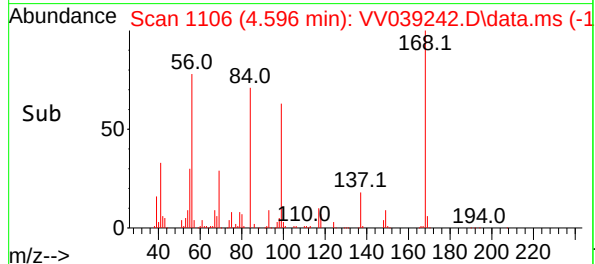
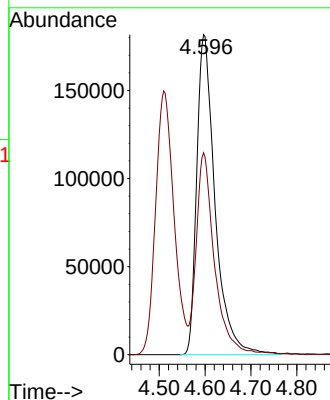
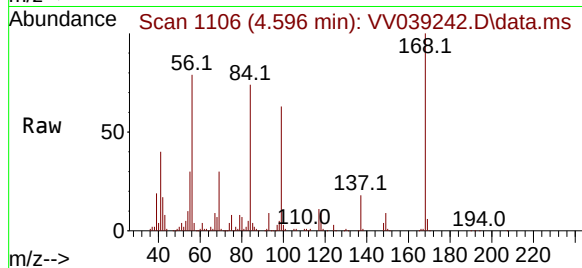
- 1
- 2
- 3
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- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.596 min Scan# 11
Delta R.T. -0.001 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

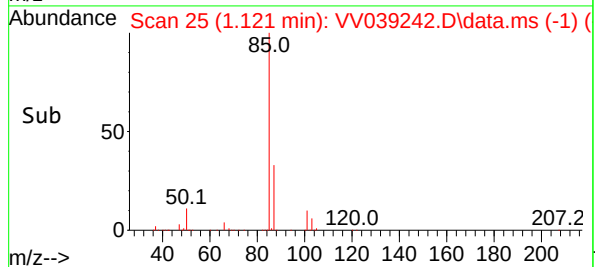
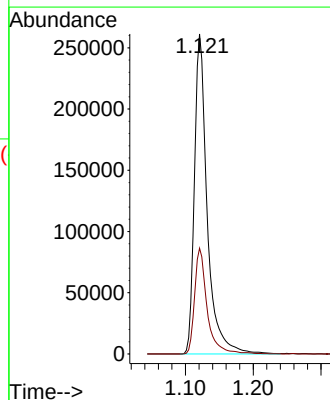
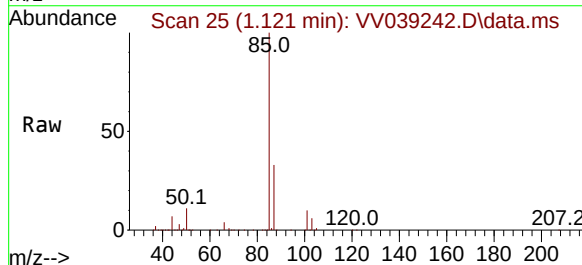
Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

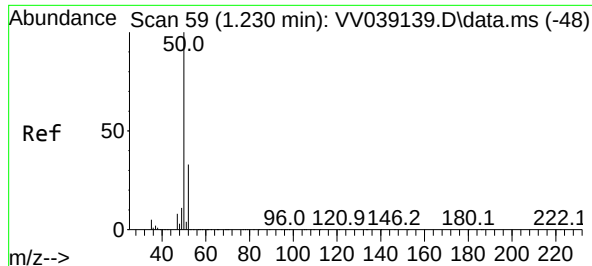
Tgt Ion:168 Resp: 504801
Ion Ratio Lower Upper
168 100
99 62.8 49.6 74.4



#2
Dichlorodifluoromethane
Concen: 42.846 ug/l
RT: 1.121 min Scan# 25
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Tgt Ion: 85 Resp: 342379
Ion Ratio Lower Upper
85 100
87 33.0 16.0 47.9

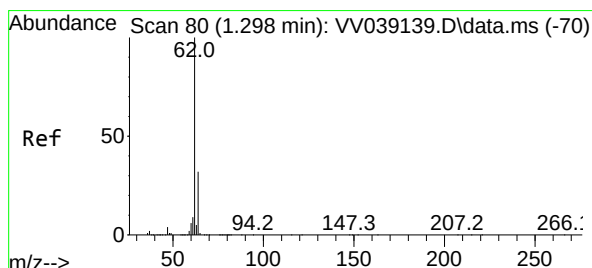
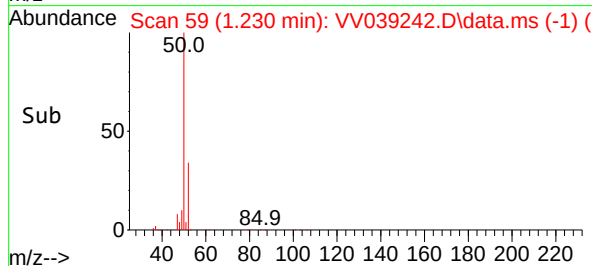
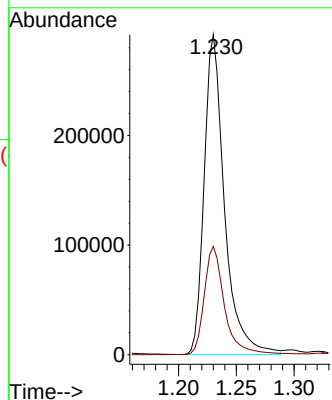
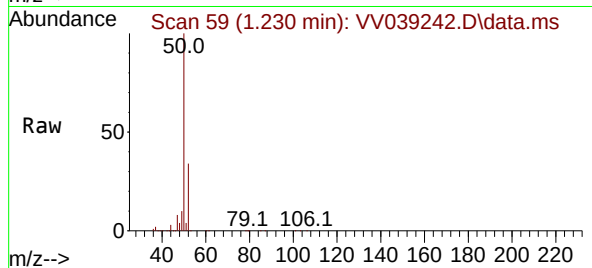




#3
Chloromethane
Concen: 41.489 ug/l
RT: 1.230 min Scan# 59
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

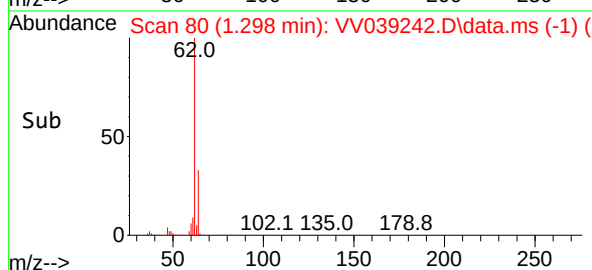
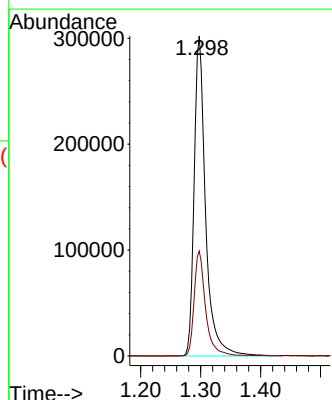
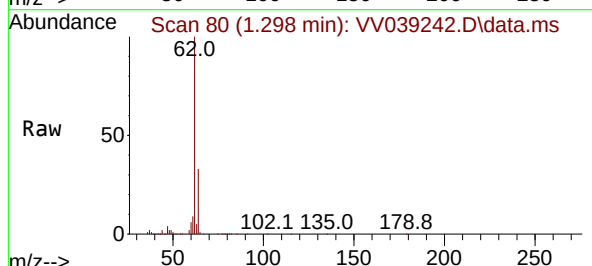
Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

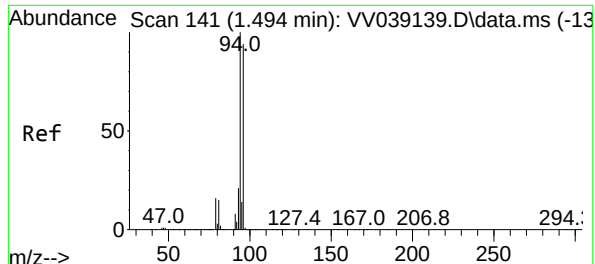
Tgt Ion: 50 Resp: 355916
Ion Ratio Lower Upper
50 100
52 33.8 26.0 39.0



#4
Vinyl Chloride
Concen: 43.819 ug/l
RT: 1.298 min Scan# 80
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Tgt Ion: 62 Resp: 402428
Ion Ratio Lower Upper
62 100
64 32.8 25.6 38.4





#5

Bromomethane

Concen: 45.671 ug/l

RT: 1.494 min Scan# 141

Delta R.T. -0.000 min

Lab File: VV039242.D

Acq: 03 Oct 2025 08:53

Instrument :

MSVOA_V

ClientSampleId :

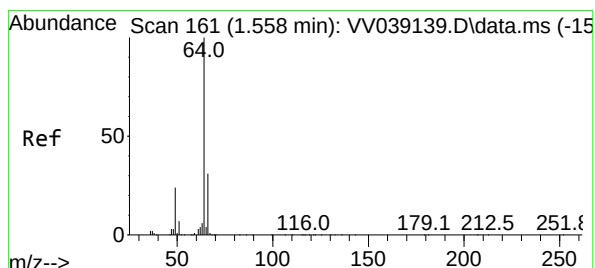
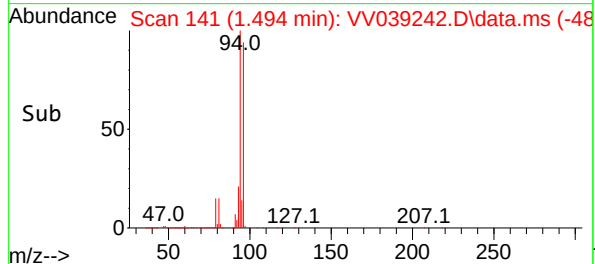
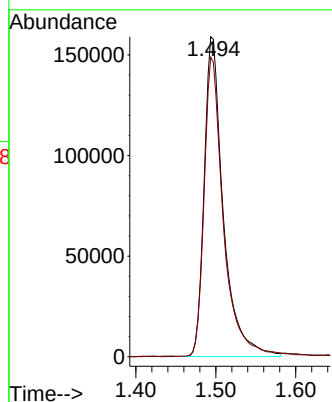
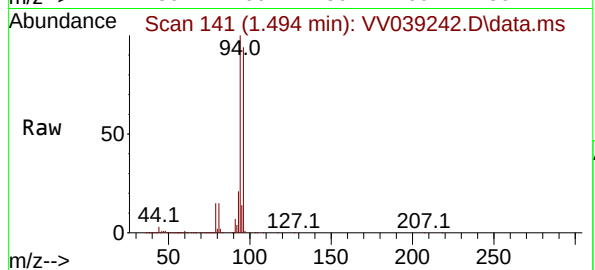
VSTDCCC050

Tgt Ion: 94 Resp: 264412

Ion Ratio Lower Upper

94 100

96 93.5 74.9 112.3



#6

Chloroethane

Concen: 49.756 ug/l

RT: 1.561 min Scan# 162

Delta R.T. 0.003 min

Lab File: VV039242.D

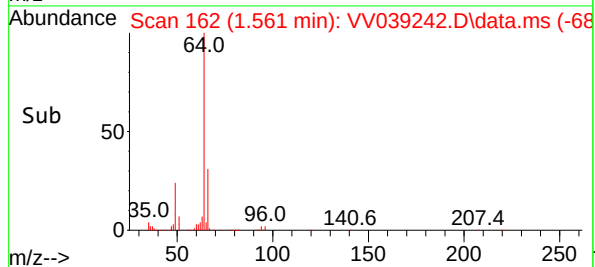
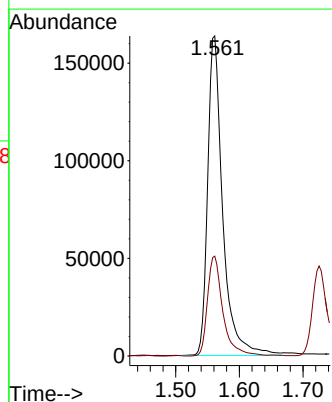
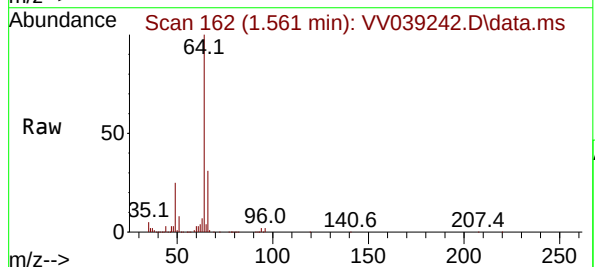
Acq: 03 Oct 2025 08:53

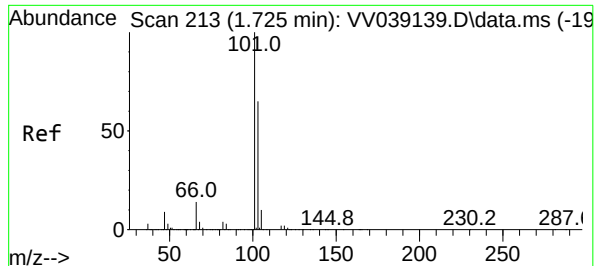
Tgt Ion: 64 Resp: 269107

Ion Ratio Lower Upper

64 100

66 31.1 24.6 36.8

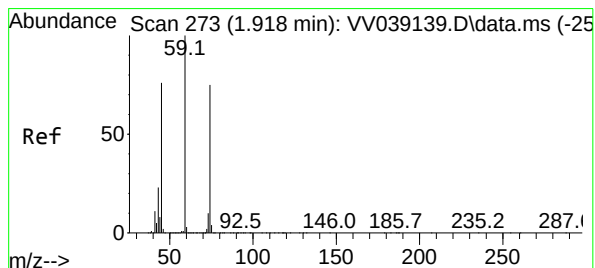
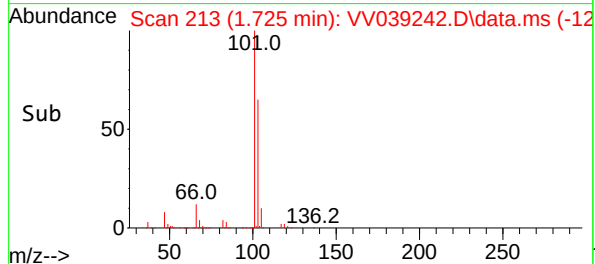
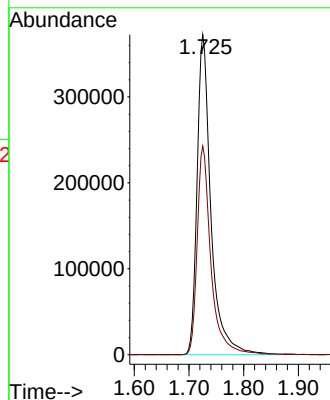
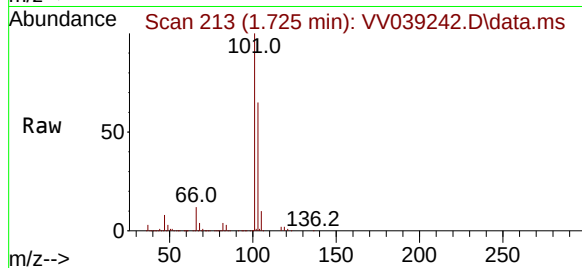




#7
Trichlorofluoromethane
Concen: 49.210 ug/l
RT: 1.725 min Scan# 213
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

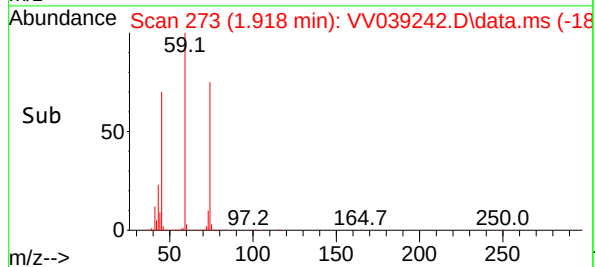
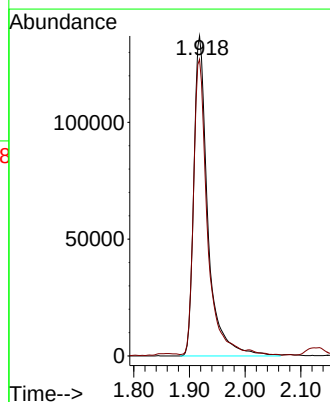
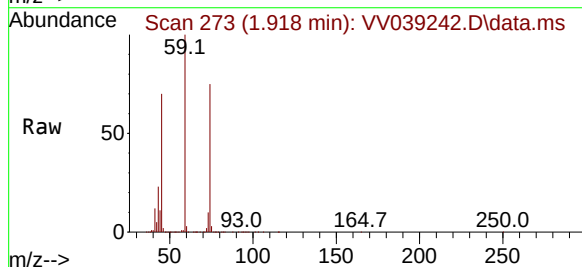
Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

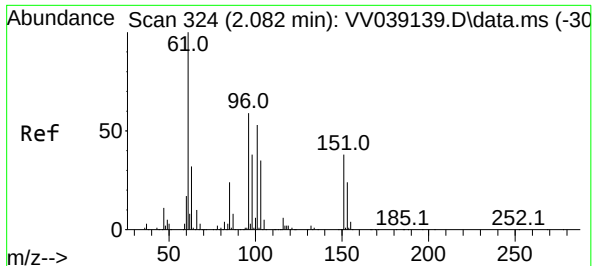
Tgt Ion:101 Resp: 654327
Ion Ratio Lower Upper
101 100
103 65.2 52.0 78.0



#8
Diethyl Ether
Concen: 48.601 ug/l
RT: 1.918 min Scan# 273
Delta R.T. 0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Tgt Ion: 74 Resp: 239899
Ion Ratio Lower Upper
74 100
45 90.0 49.6 148.8

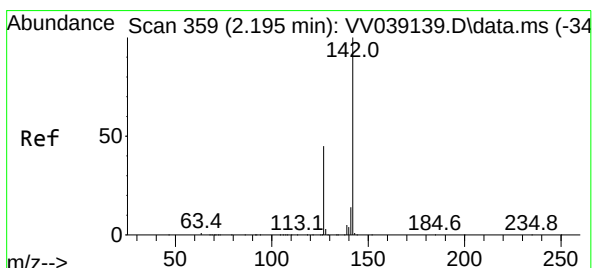
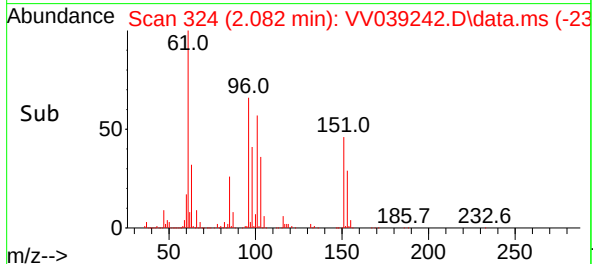
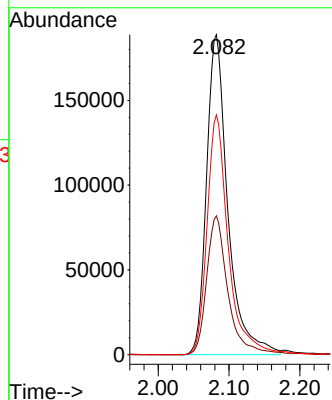
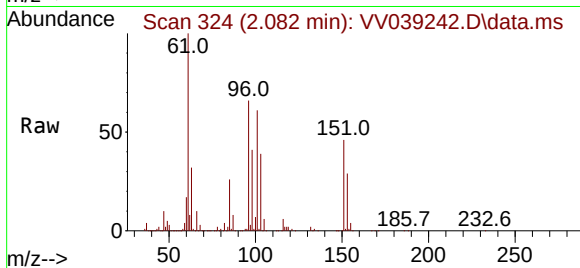




#9
1,1,2-Trichlorotrifluoroethane
Concen: 49.765 ug/l
RT: 2.082 min Scan# 31
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

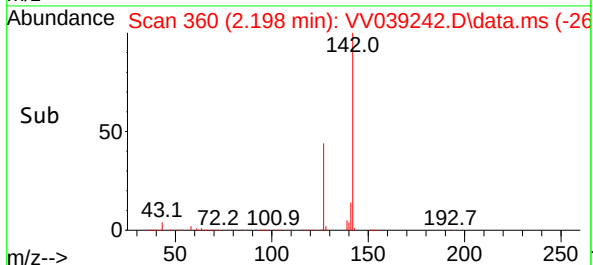
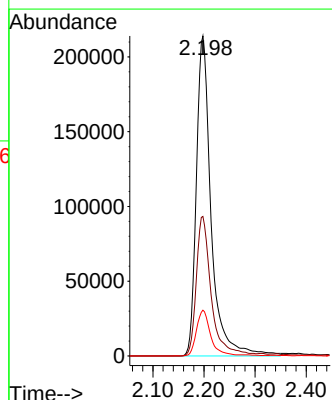
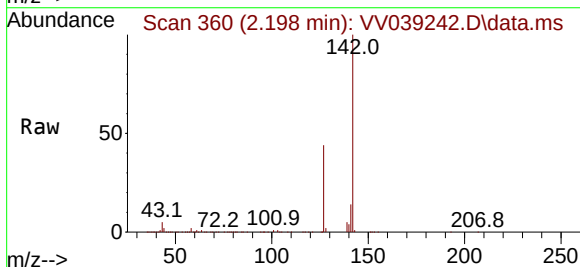
Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

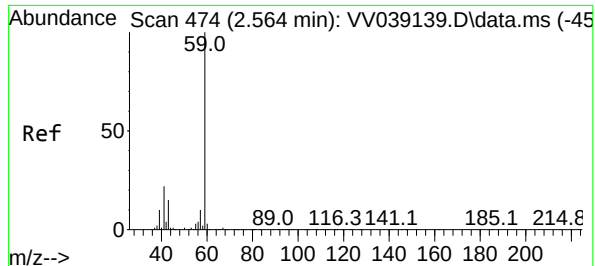
Tgt Ion:101 Resp: 393714
Ion Ratio Lower Upper
101 100
85 43.7 36.2 54.2
151 74.9 56.3 84.5



#10
Methyl Iodide
Concen: 57.201 ug/l
RT: 2.198 min Scan# 360
Delta R.T. 0.003 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Tgt Ion:142 Resp: 430956
Ion Ratio Lower Upper
142 100
127 44.1 36.3 54.5
141 13.8 11.2 16.8





#11

Tert butyl alcohol

Concen: 220.472 ug/l

RT: 2.564 min Scan# 41

Delta R.T. -0.000 min

Lab File: VV039242.D

Acq: 03 Oct 2025 08:53

Instrument :

MSVOA_V

ClientSampleId :

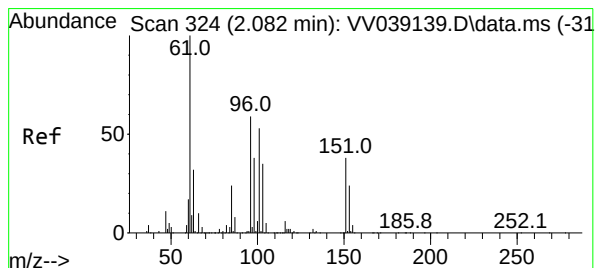
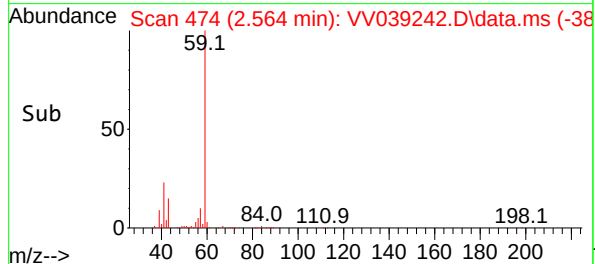
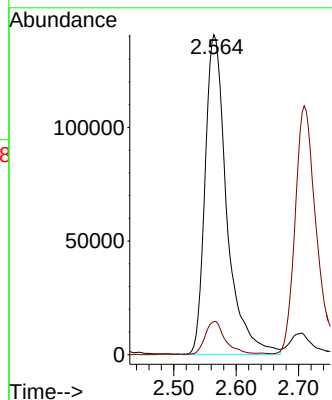
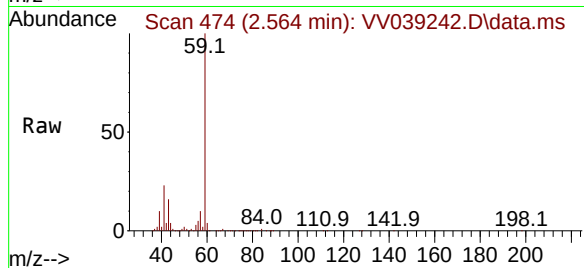
VSTDCCC050

Tgt Ion: 59 Resp: 340440

Ion Ratio Lower Upper

59 100

57 9.9 7.8 11.8



#12

1,1-Dichloroethene

Concen: 48.853 ug/l

RT: 2.082 min Scan# 324

Delta R.T. -0.000 min

Lab File: VV039242.D

Acq: 03 Oct 2025 08:53

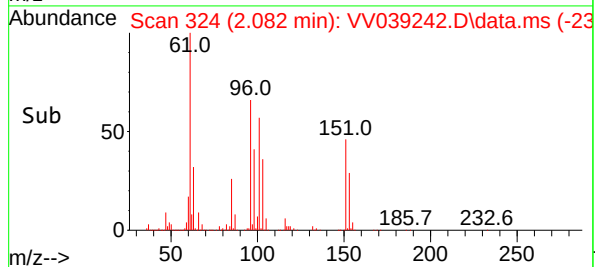
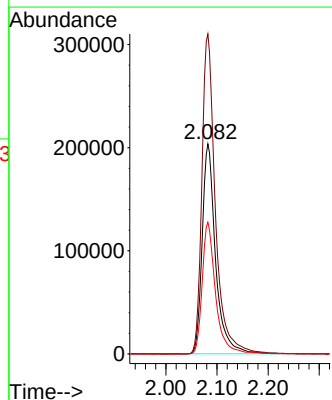
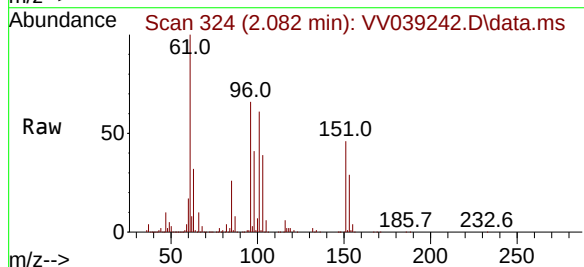
Tgt Ion: 96 Resp: 371821

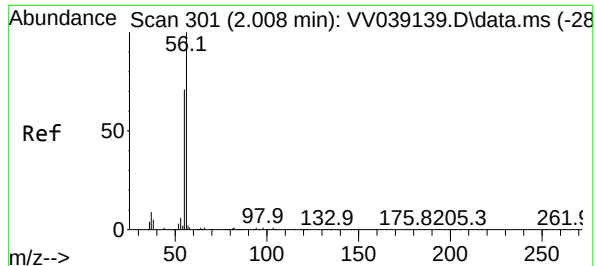
Ion Ratio Lower Upper

96 100

61 152.4 136.0 204.0

98 62.7 51.0 76.6

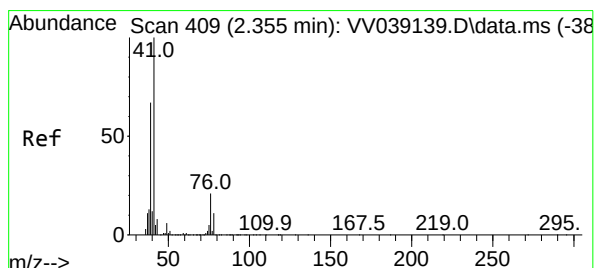
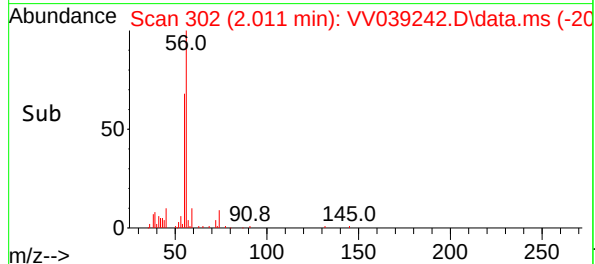
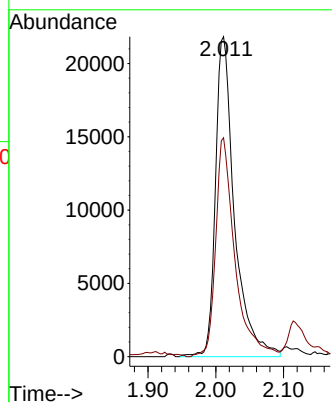
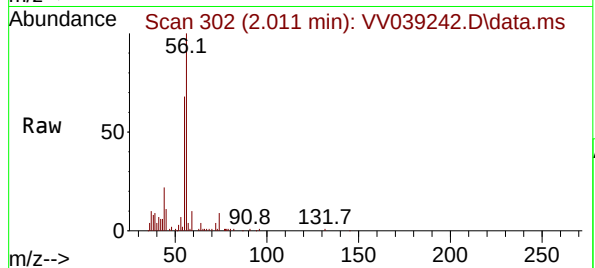




#13
Acrolein
Concen: 158.748 ug/l
RT: 2.011 min Scan# 301
Delta R.T. 0.003 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

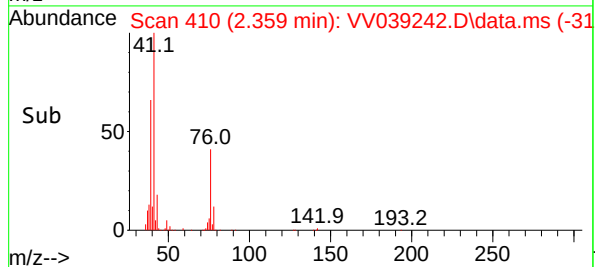
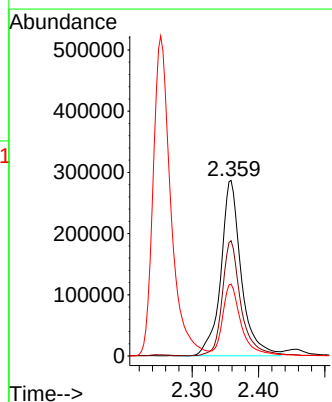
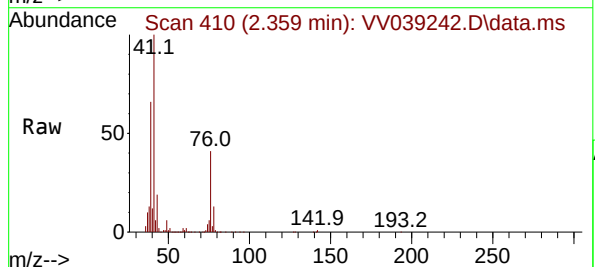
Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

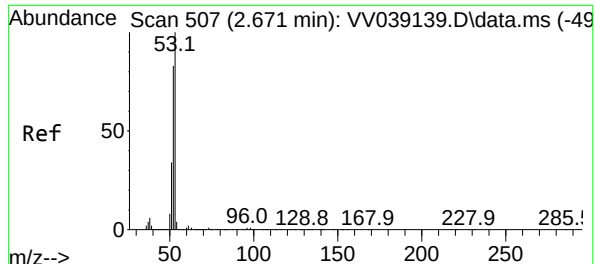
Tgt Ion: 56 Resp: 42535
Ion Ratio Lower Upper
56 100
55 69.2 56.2 84.4



#14
Allyl chloride
Concen: 45.110 ug/l
RT: 2.359 min Scan# 410
Delta R.T. 0.003 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Tgt Ion: 41 Resp: 613293
Ion Ratio Lower Upper
41 100
39 60.3 51.0 76.6
76 37.7 28.2 42.4





#15

Acrylonitrile

Concen: 229.692 ug/l

RT: 2.670 min Scan# 507

Delta R.T. -0.000 min

Lab File: VV039242.D

Acq: 03 Oct 2025 08:53

Instrument :

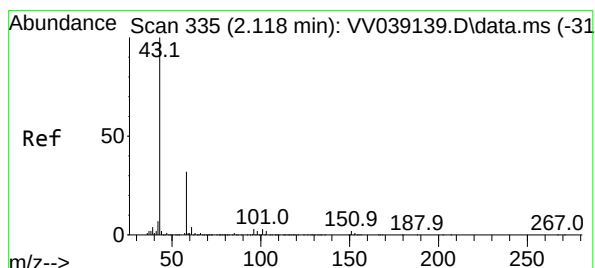
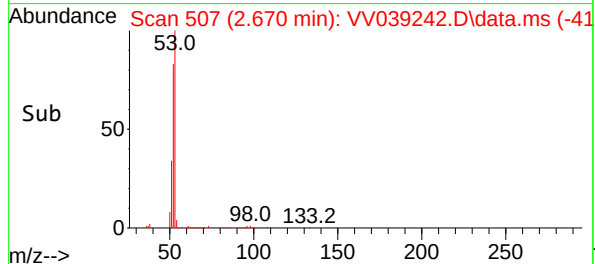
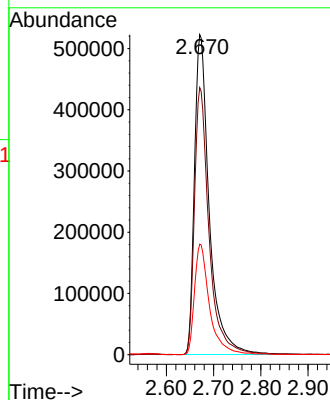
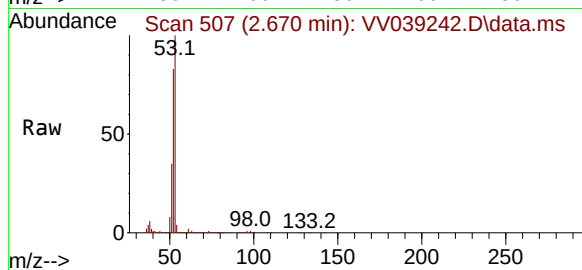
MSVOA_V

ClientSampleId :

VSTDCCC050

Tgt Ion: 53 Resp: 1136973

Ion	Ratio	Lower	Upper
53	100		
52	82.3	66.1	99.1
51	35.0	28.5	42.7



#16

Acetone

Concen: 261.128 ug/l

RT: 2.117 min Scan# 335

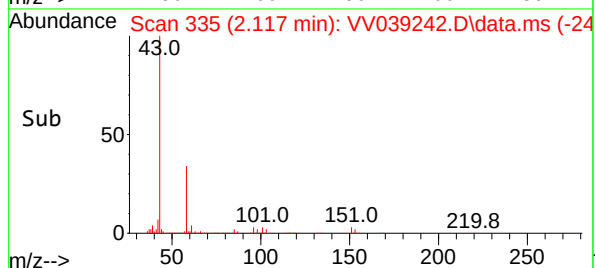
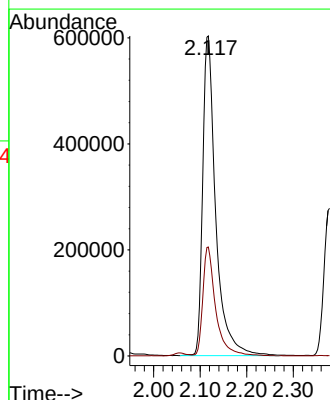
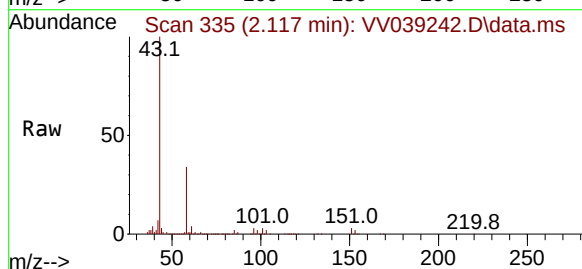
Delta R.T. -0.001 min

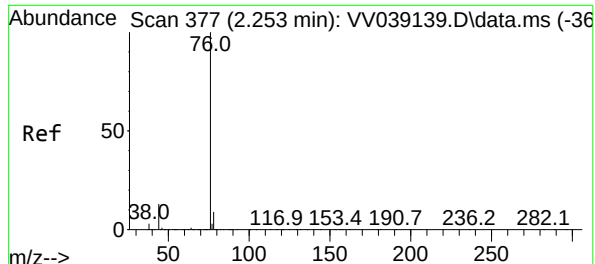
Lab File: VV039242.D

Acq: 03 Oct 2025 08:53

Tgt Ion: 43 Resp: 1174504

Ion	Ratio	Lower	Upper
43	100		
58	34.0	25.8	38.6





#17

Carbon Disulfide

Concen: 41.510 ug/l

RT: 2.252 min Scan# 31

Delta R.T. -0.000 min

Lab File: VV039242.D

Acq: 03 Oct 2025 08:53

Instrument :

MSVOA_V

ClientSampleId :

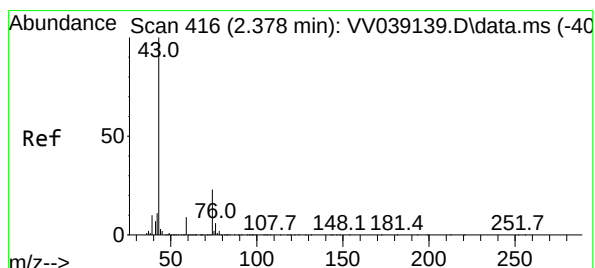
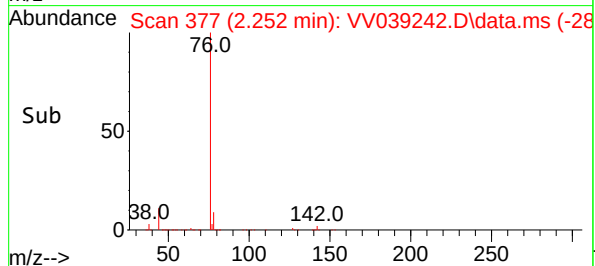
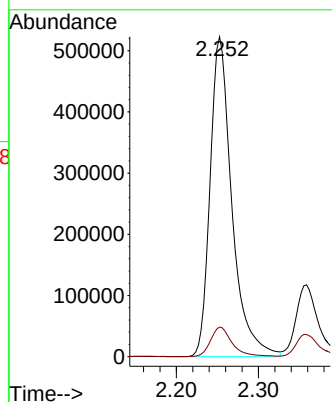
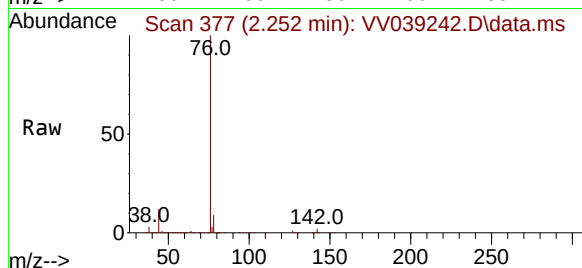
VSTDCCC050

Tgt Ion: 76 Resp: 966224

Ion Ratio Lower Upper

76 100

78 9.2 7.4 11.0



#18

Methyl Acetate

Concen: 53.306 ug/l

RT: 2.378 min Scan# 416

Delta R.T. -0.000 min

Lab File: VV039242.D

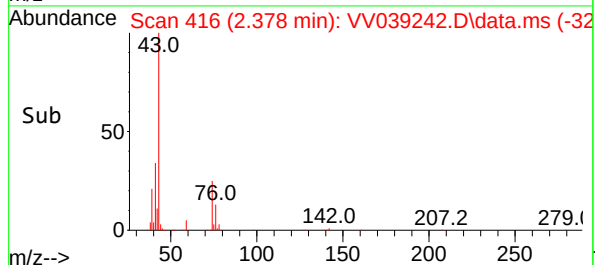
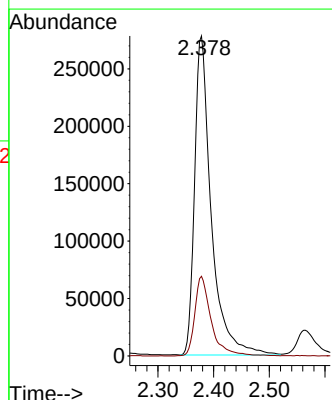
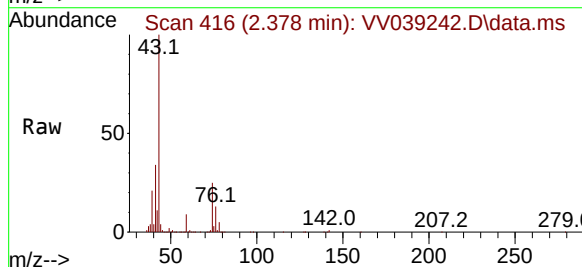
Acq: 03 Oct 2025 08:53

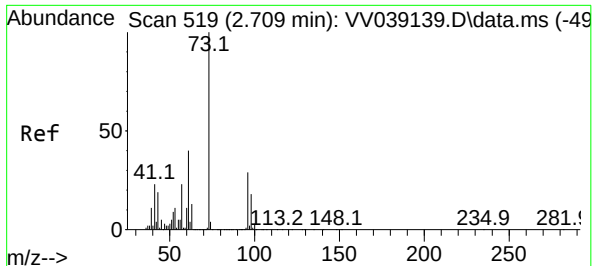
Tgt Ion: 43 Resp: 577040

Ion Ratio Lower Upper

43 100

74 24.5 18.6 27.8





#19

Methyl tert-butyl Ether

Concen: 50.644 ug/l

RT: 2.709 min Scan# 519

Delta R.T. -0.000 min

Lab File: VV039242.D

Acq: 03 Oct 2025 08:53

Instrument :

MSVOA_V

ClientSampleId :

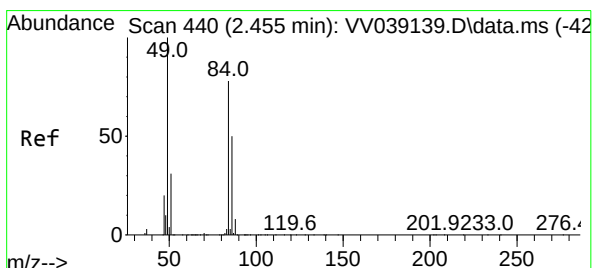
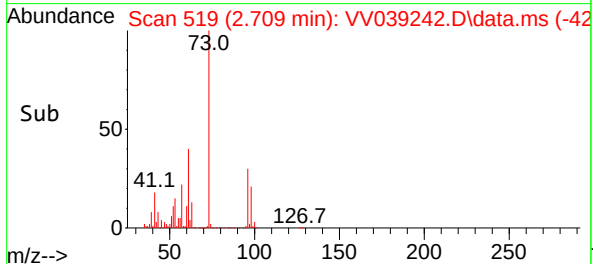
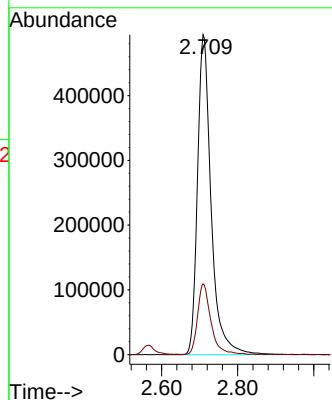
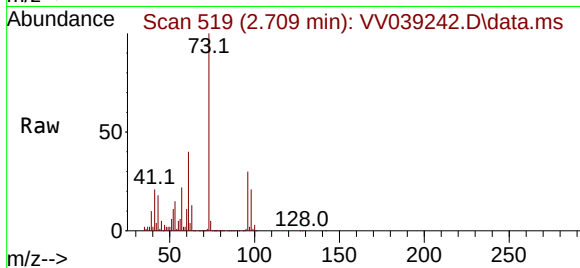
VSTDCCC050

Tgt Ion: 73 Resp: 1228261

Ion Ratio Lower Upper

73 100

57 22.1 18.2 27.4



#20

Methylene Chloride

Concen: 54.174 ug/l

RT: 2.455 min Scan# 440

Delta R.T. 0.000 min

Lab File: VV039242.D

Acq: 03 Oct 2025 08:53

Tgt Ion: 84 Resp: 425236

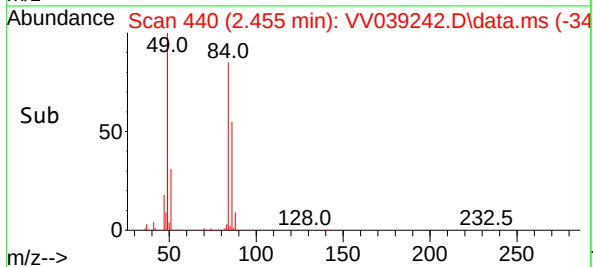
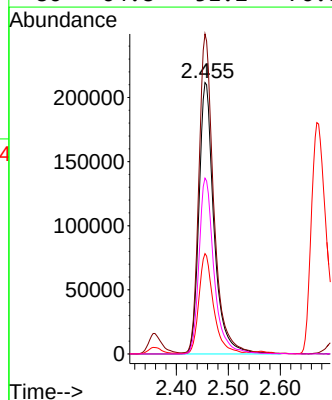
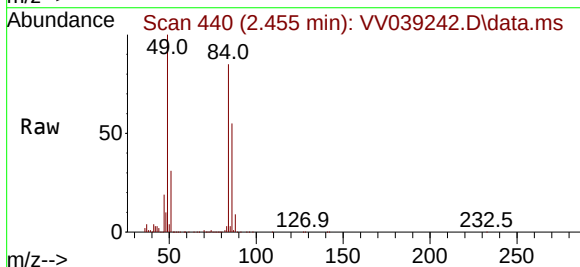
Ion Ratio Lower Upper

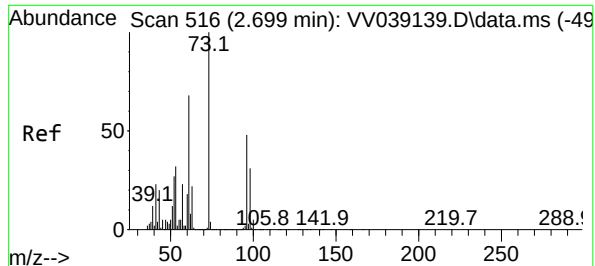
84 100

49 117.7 102.8 154.2

51 36.8 31.9 47.9

86 64.8 51.2 76.8

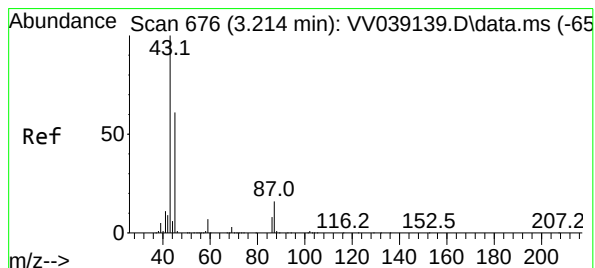
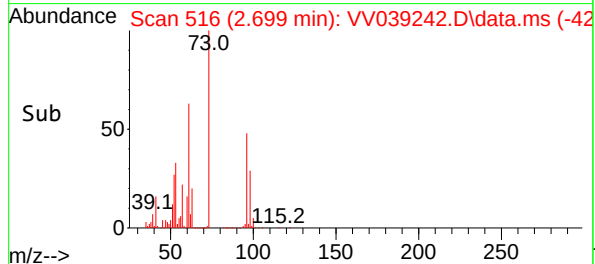
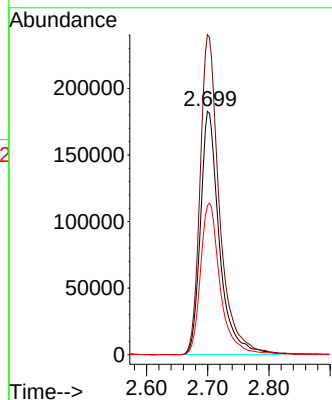
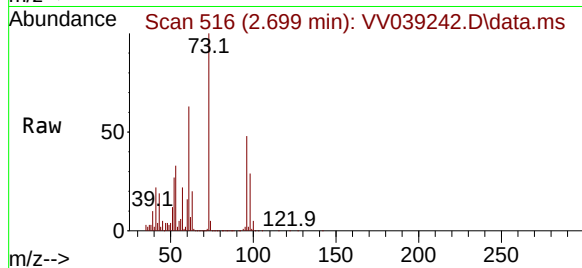




#21
trans-1,2-Dichloroethene
Concen: 48.346 ug/l
RT: 2.699 min Scan# 516
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

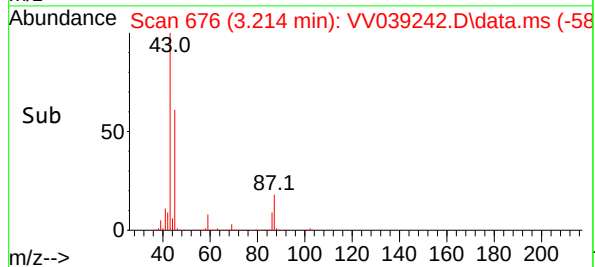
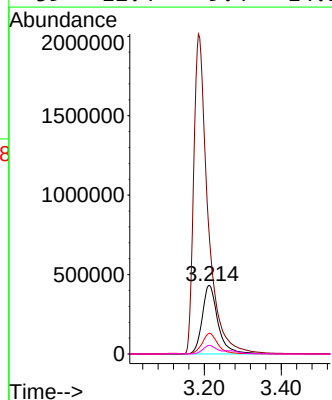
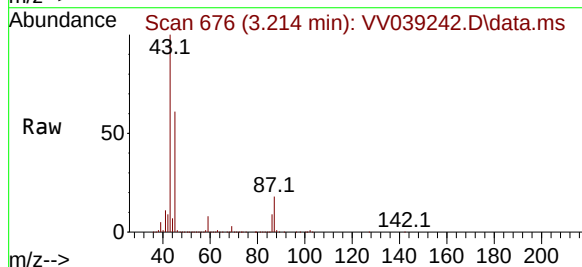
Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

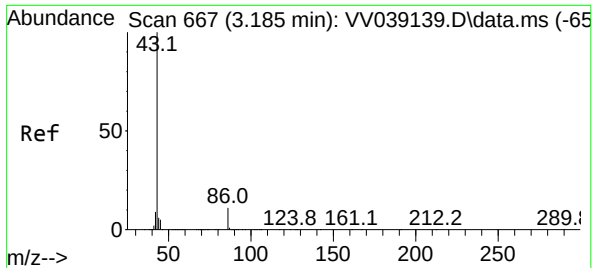
Tgt Ion: 96 Resp: 391729
Ion Ratio Lower Upper
96 100
61 131.6 112.8 169.2
98 61.2 51.1 76.7



#22
Diisopropyl ether
Concen: 47.173 ug/l
RT: 3.214 min Scan# 676
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Tgt Ion: 45 Resp: 1227079
Ion Ratio Lower Upper
45 100
43 165.0 130.9 196.3
87 30.3 21.1 31.7
59 12.4 9.4 14.2





#23

Vinyl Acetate

Concen: 226.848 ug/l

RT: 3.185 min Scan# 667

Delta R.T. -0.000 min

Lab File: VV039242.D

Acq: 03 Oct 2025 08:53

Instrument :

MSVOA_V

ClientSampleId :

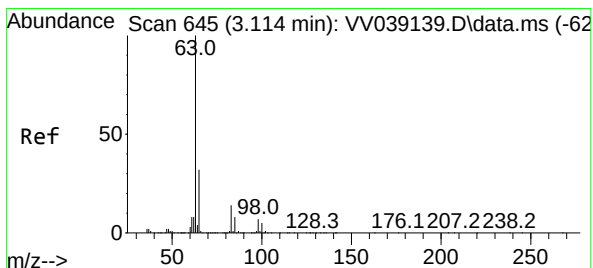
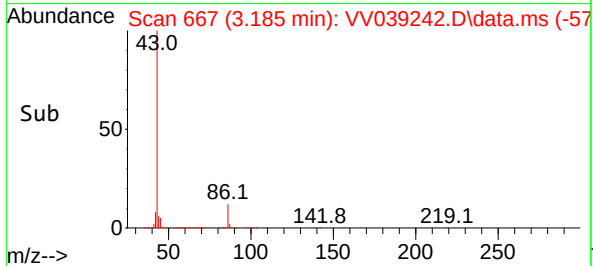
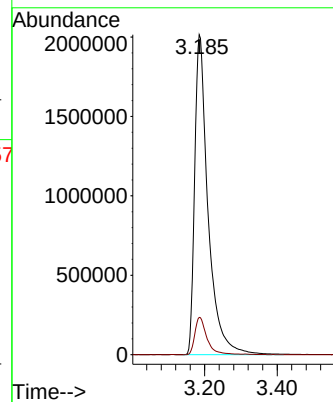
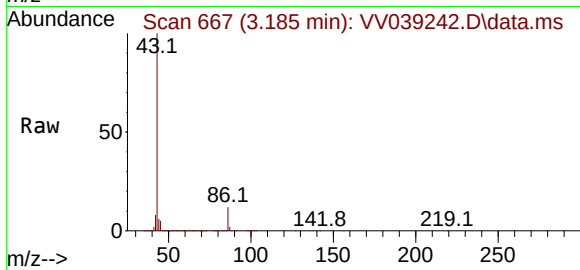
VSTDCCC050

Tgt Ion: 43 Resp: 5161912

Ion Ratio Lower Upper

43 100

86 11.7 8.4 12.6



#24

1,1-Dichloroethane

Concen: 46.651 ug/l

RT: 3.117 min Scan# 646

Delta R.T. 0.003 min

Lab File: VV039242.D

Acq: 03 Oct 2025 08:53

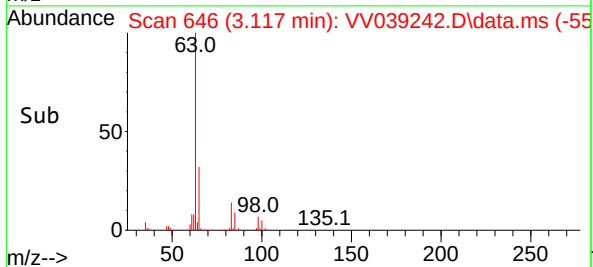
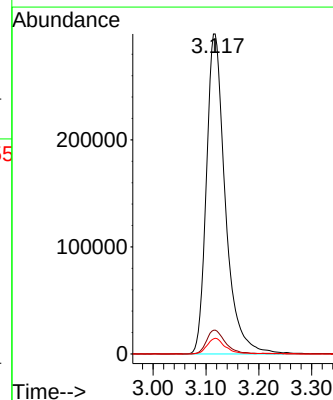
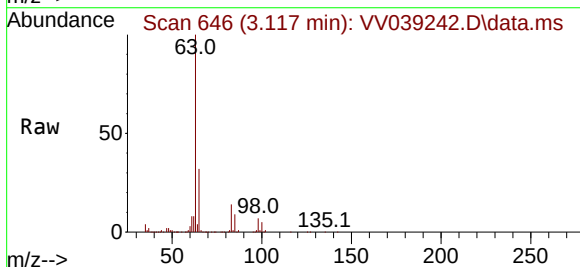
Tgt Ion: 63 Resp: 742092

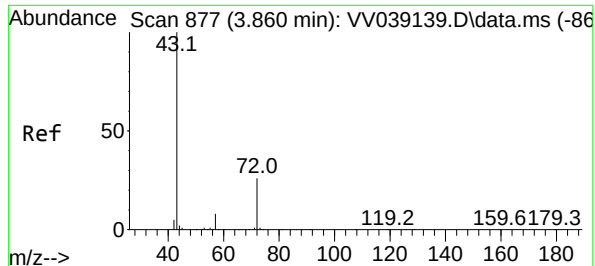
Ion Ratio Lower Upper

63 100

98 7.4 3.4 10.2

100 4.9 2.2 6.6





#25

2-Butanone

Concen: 235.085 ug/l

RT: 3.860 min Scan# 81

Delta R.T. -0.000 min

Lab File: VV039242.D

Acq: 03 Oct 2025 08:53

Instrument :

MSVOA_V

ClientSampleId :

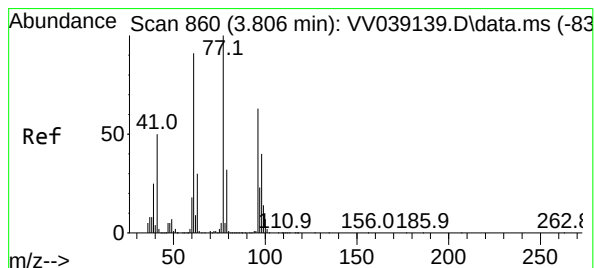
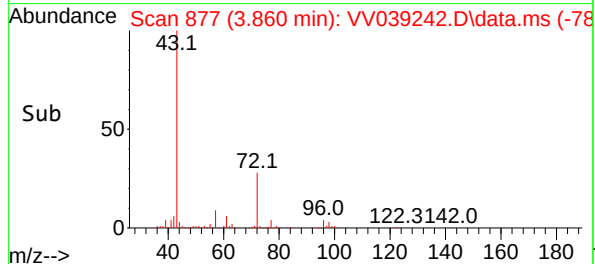
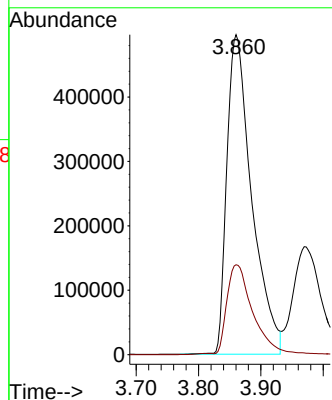
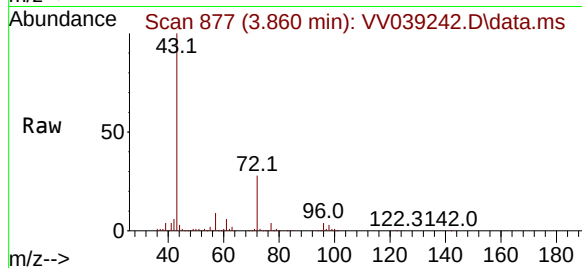
VSTDCCC050

Tgt Ion: 43 Resp: 1375343

Ion Ratio Lower Upper

43 100

72 28.1 21.0 31.6



#26

2,2-Dichloropropane

Concen: 43.784 ug/l

RT: 3.809 min Scan# 861

Delta R.T. 0.003 min

Lab File: VV039242.D

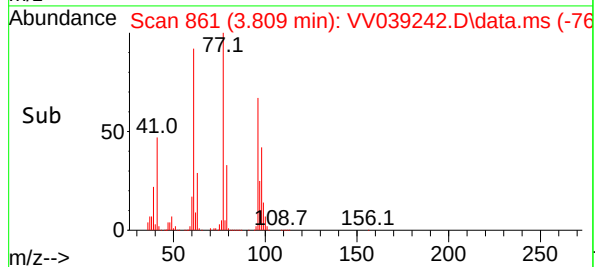
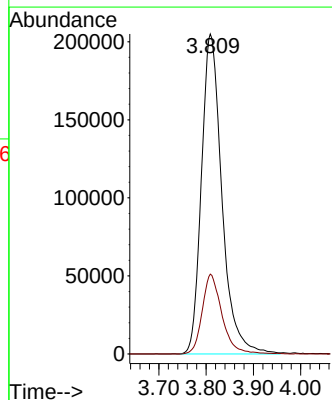
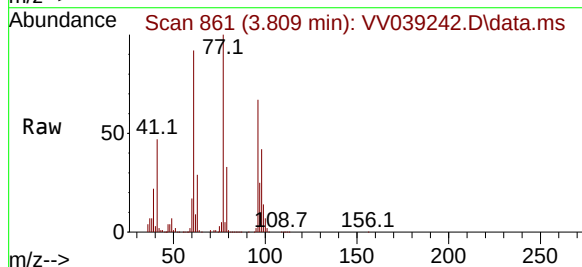
Acq: 03 Oct 2025 08:53

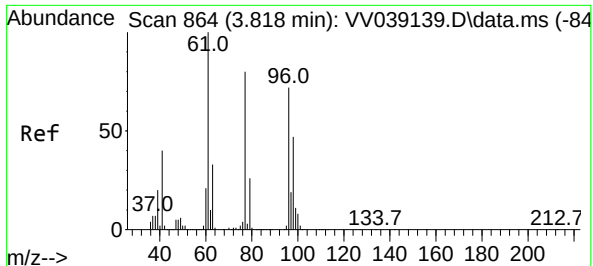
Tgt Ion: 77 Resp: 617550

Ion Ratio Lower Upper

77 100

97 24.0 11.6 34.7





#27

cis-1,2-Dichloroethene

Concen: 48.015 ug/l

RT: 3.818 min Scan# 864

Delta R.T. -0.000 min

Lab File: VV039242.D

Acq: 03 Oct 2025 08:53

Instrument :

MSVOA_V

ClientSampleId :

VSTDCCC050

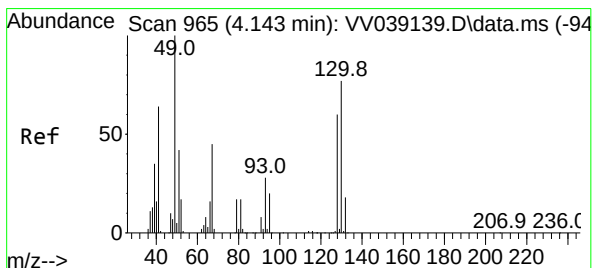
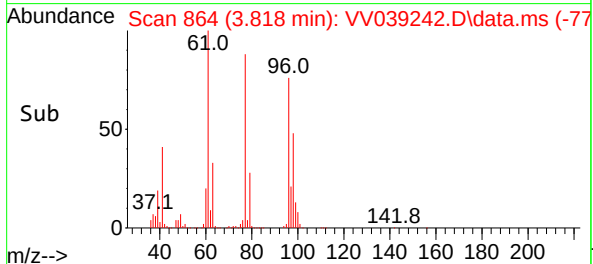
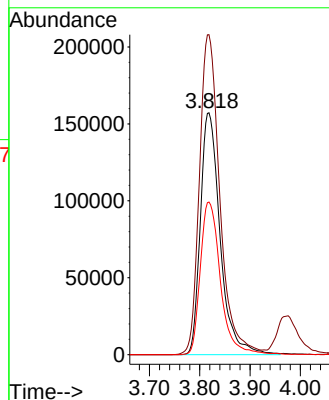
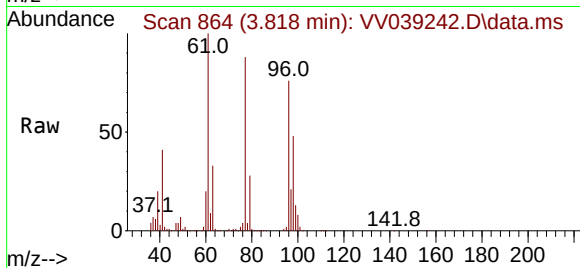
Tgt Ion: 96 Resp: 429074

Ion Ratio Lower Upper

96 100

61 137.0 0.0 286.4

98 64.1 0.0 126.6



#28

Bromochloromethane

Concen: 49.928 ug/l

RT: 4.143 min Scan# 965

Delta R.T. -0.000 min

Lab File: VV039242.D

Acq: 03 Oct 2025 08:53

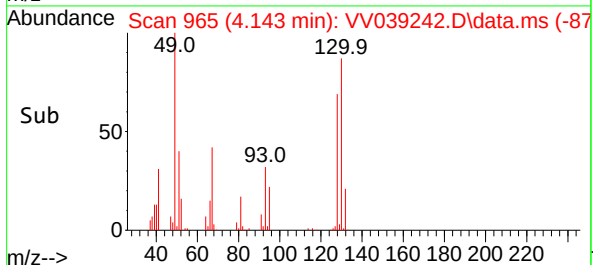
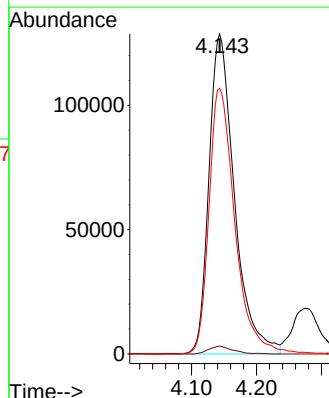
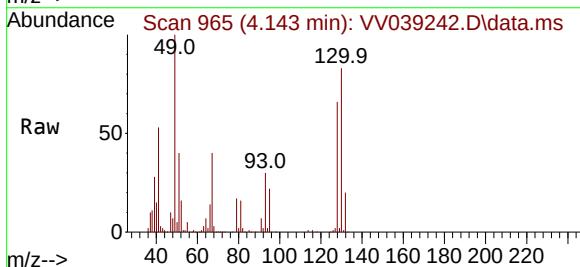
Tgt Ion: 49 Resp: 350614

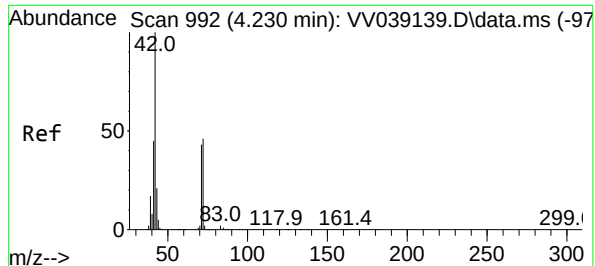
Ion Ratio Lower Upper

49 100

129 2.3 0.0 4.2

130 84.3 60.2 90.2





#29

Tetrahydrofuran

Concen: 235.626 ug/l

RT: 4.230 min Scan# 992

Delta R.T. -0.000 min

Lab File: VV039242.D

Acq: 03 Oct 2025 08:53

Instrument :

MSVOA_V

ClientSampleId :

VSTDCCC050

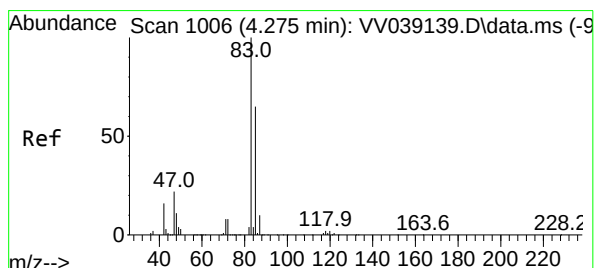
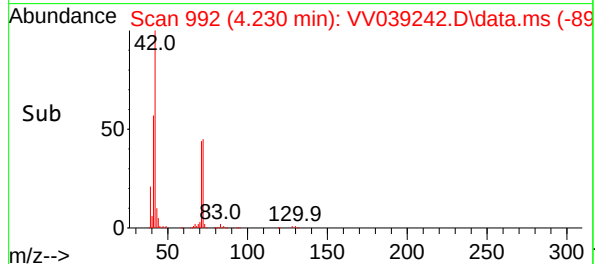
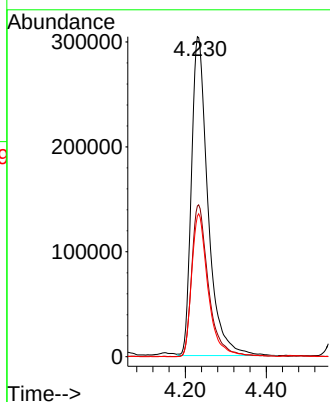
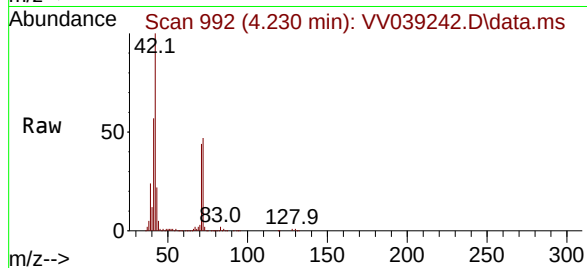
Tgt Ion: 42 Resp: 862839

Ion Ratio Lower Upper

42 100

72 48.0 36.3 54.5

71 44.4 34.3 51.5



#30

Chloroform

Concen: 46.845 ug/l

RT: 4.275 min Scan# 1006

Delta R.T. -0.000 min

Lab File: VV039242.D

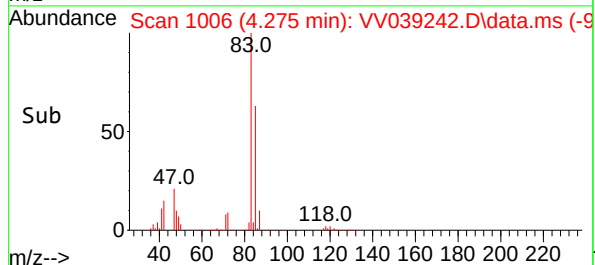
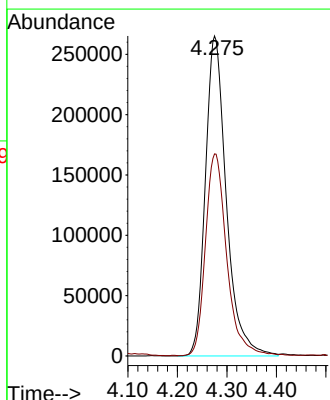
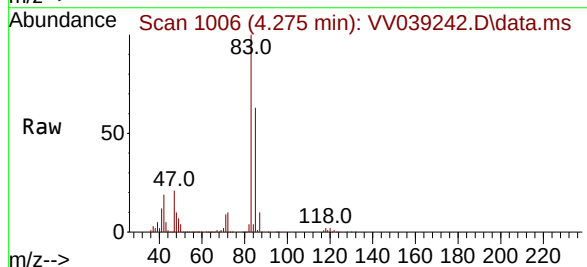
Acq: 03 Oct 2025 08:53

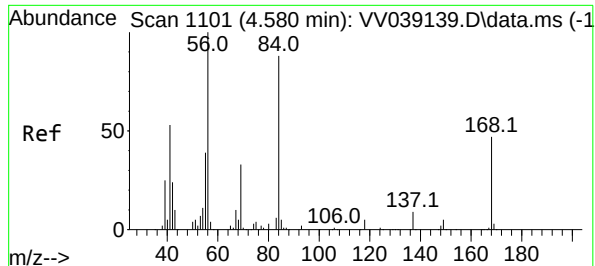
Tgt Ion: 83 Resp: 778110

Ion Ratio Lower Upper

83 100

85 63.1 52.1 78.1





#31

Cyclohexane

Concen: 40.990 ug/l

RT: 4.580 min Scan# 1101

Delta R.T. -0.000 min

Lab File: VV039242.D

Acq: 03 Oct 2025 08:53

Instrument :

MSVOA_V

ClientSampleId :

VSTDCCC050

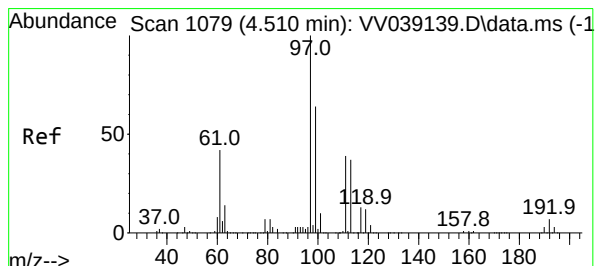
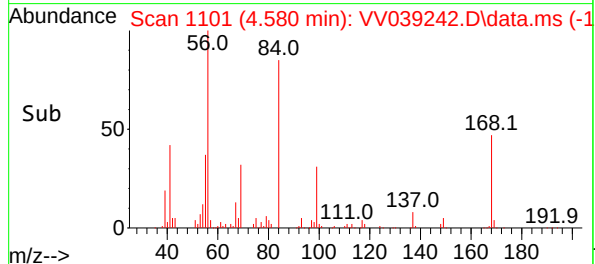
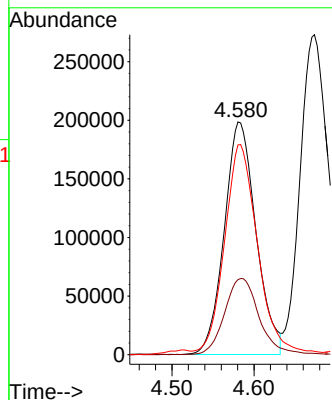
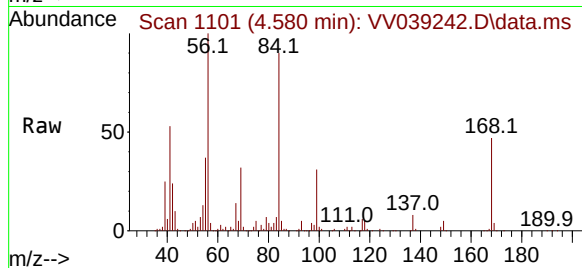
Tgt Ion: 56 Resp: 534129

Ion Ratio Lower Upper

56 100

69 32.2 26.2 39.2

84 88.3 70.3 105.5



#32

1,1,1-Trichloroethane

Concen: 46.532 ug/l

RT: 4.510 min Scan# 1079

Delta R.T. -0.000 min

Lab File: VV039242.D

Acq: 03 Oct 2025 08:53

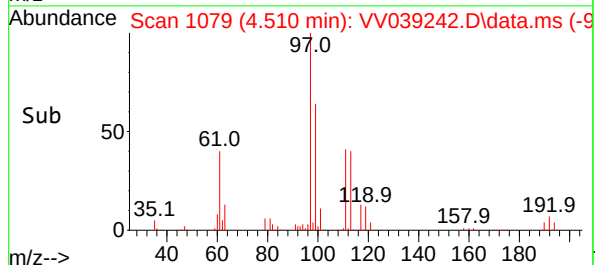
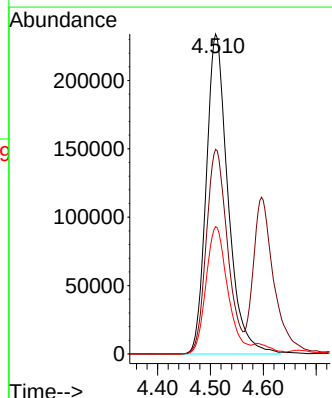
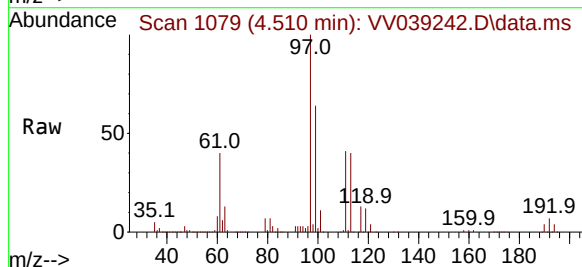
Tgt Ion: 97 Resp: 669151

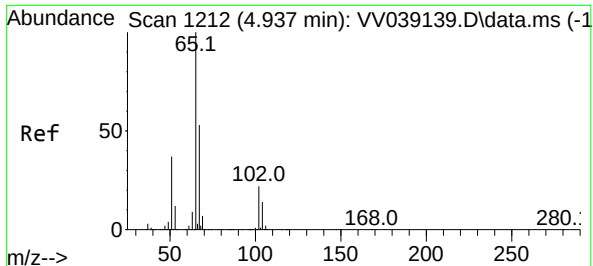
Ion Ratio Lower Upper

97 100

99 62.2 49.6 74.4

61 39.9 34.5 51.7





#33

1,2-Dichloroethane-d4

Concen: 41.751 ug/l

RT: 4.941 min Scan# 11

Delta R.T. 0.003 min

Lab File: VV039242.D

Acq: 03 Oct 2025 08:53

Instrument :

MSVOA_V

ClientSampleId :

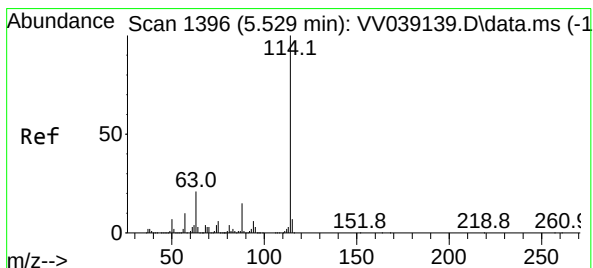
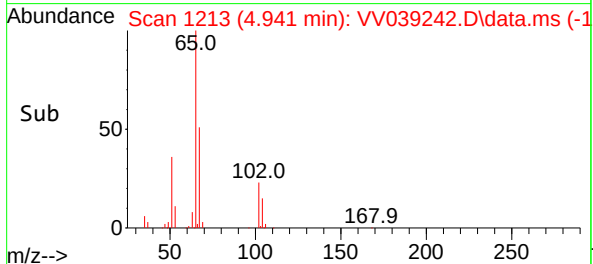
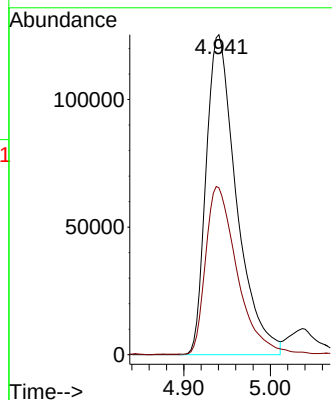
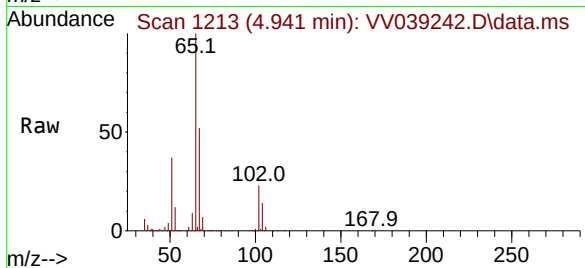
VSTDCCC050

Tgt Ion: 65 Resp: 305033

Ion Ratio Lower Upper

65 100

67 54.3 0.0 107.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.532 min Scan# 1397

Delta R.T. 0.003 min

Lab File: VV039242.D

Acq: 03 Oct 2025 08:53

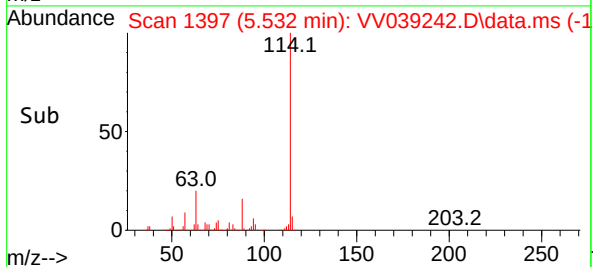
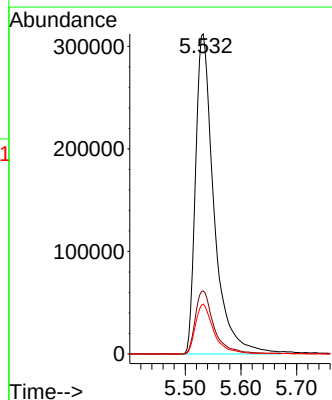
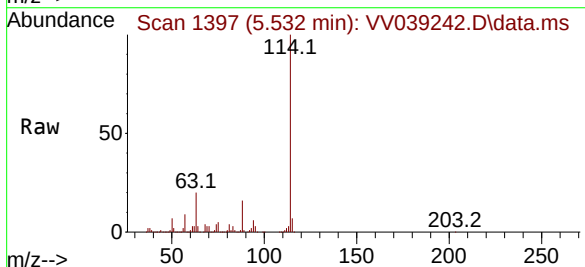
Tgt Ion: 114 Resp: 717875

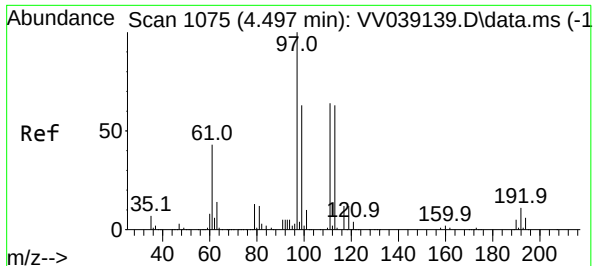
Ion Ratio Lower Upper

114 100

63 19.7 0.0 42.6

88 15.6 0.0 30.8





#35

Dibromofluoromethane

Concen: 55.012 ug/l

RT: 4.497 min Scan# 1075

Delta R.T. -0.000 min

Lab File: VV039242.D

Acq: 03 Oct 2025 08:53

Instrument :

MSVOA_V

ClientSampleId :

VSTDCCC050

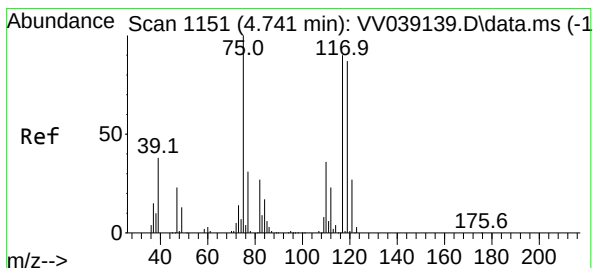
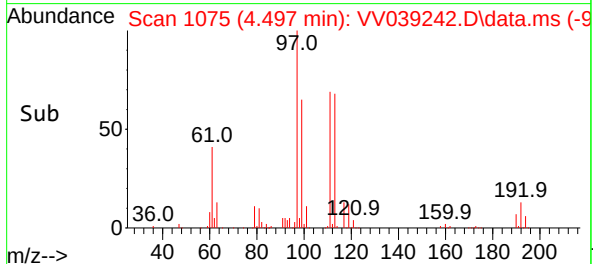
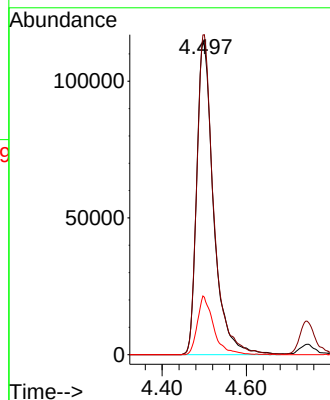
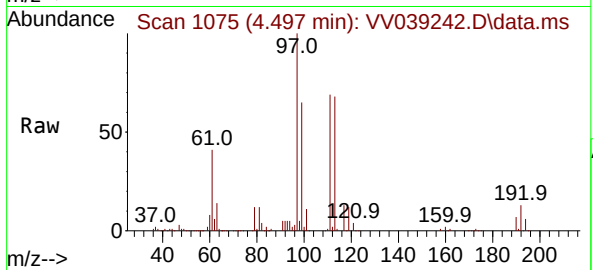
Tgt Ion:113 Resp: 317481

Ion Ratio Lower Upper

113 100

111 100.4 82.4 123.6

192 18.0 13.8 20.8



#36

1,1-Dichloropropene

Concen: 54.703 ug/l

RT: 4.741 min Scan# 1151

Delta R.T. 0.000 min

Lab File: VV039242.D

Acq: 03 Oct 2025 08:53

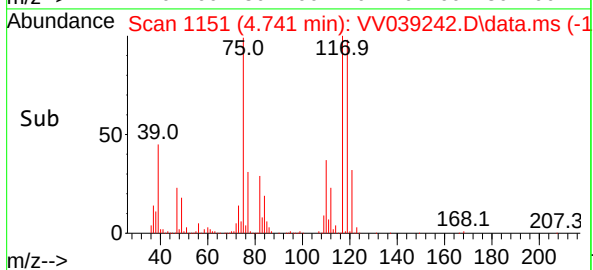
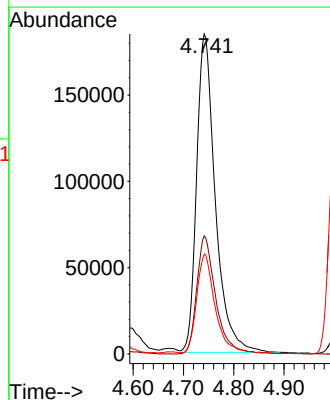
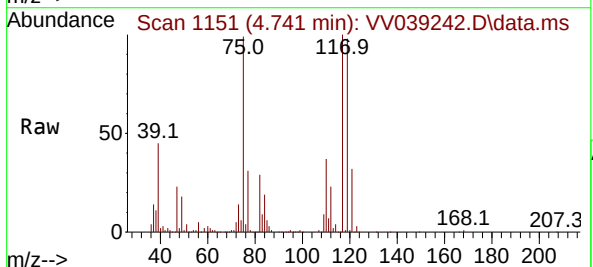
Tgt Ion: 75 Resp: 477305

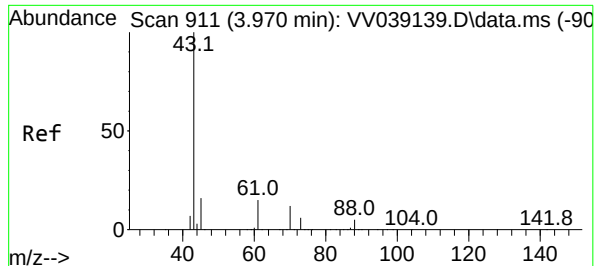
Ion Ratio Lower Upper

75 100

110 37.1 18.1 54.1

77 30.3 24.8 37.2





#37

Ethyl Acetate

Concen: 48.933 ug/l

RT: 3.969 min Scan# 911

Delta R.T. -0.001 min

Lab File: VV039242.D

Acq: 03 Oct 2025 08:53

Instrument :

MSVOA_V

ClientSampleId :

VSTDCCC050

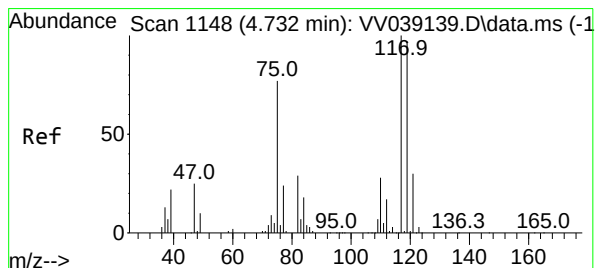
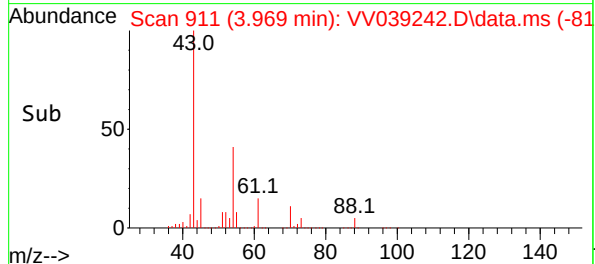
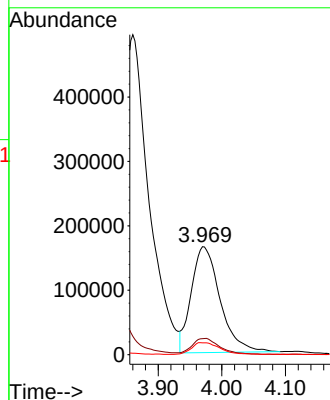
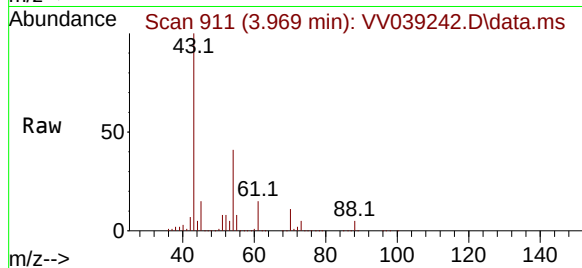
Tgt Ion: 43 Resp: 518087

Ion Ratio Lower Upper

43 100

61 14.5 10.3 15.5

70 10.7 8.0 12.0



#38

Carbon Tetrachloride

Concen: 54.914 ug/l

RT: 4.731 min Scan# 1148

Delta R.T. -0.001 min

Lab File: VV039242.D

Acq: 03 Oct 2025 08:53

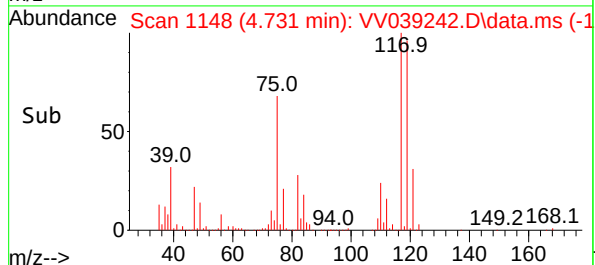
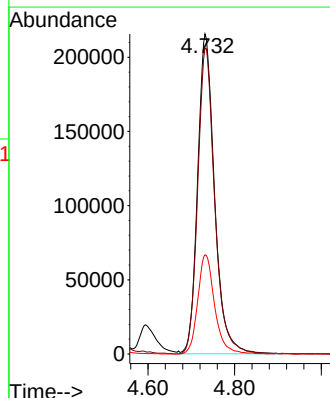
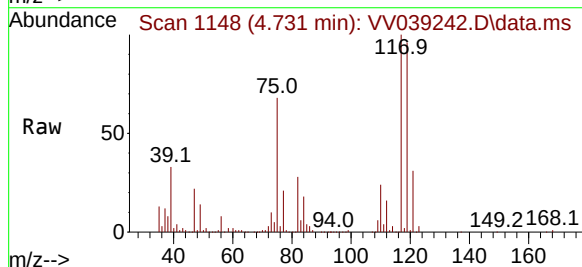
Tgt Ion: 117 Resp: 585594

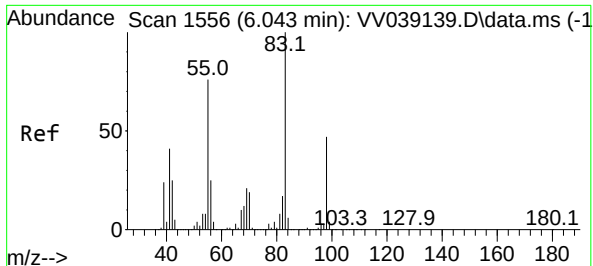
Ion Ratio Lower Upper

117 100

119 95.5 77.2 115.8

121 31.0 24.2 36.2





#39

Methylcyclohexane

Concen: 51.283 ug/l

RT: 6.047 min Scan# 11

Delta R.T. 0.004 min

Lab File: VV039242.D

Acq: 03 Oct 2025 08:53

Instrument :

MSVOA_V

ClientSampleId :

VSTDCCC050

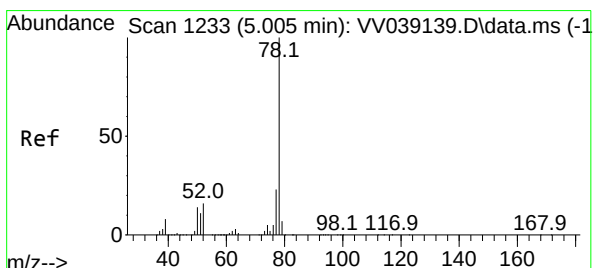
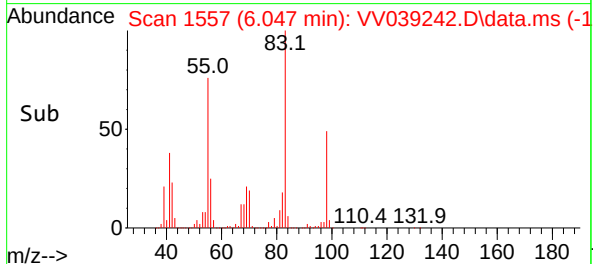
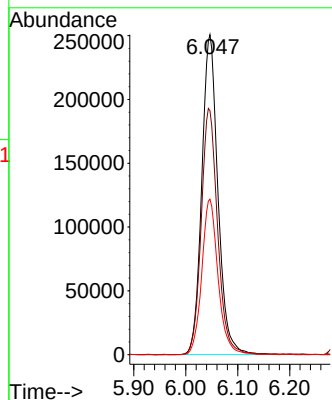
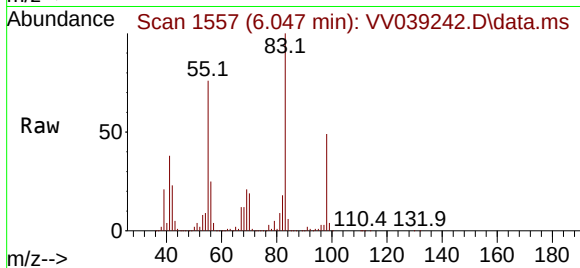
Tgt Ion: 83 Resp: 540367

Ion Ratio Lower Upper

83 100

55 76.2 60.5 90.7

98 48.6 37.8 56.6



#40

Benzene

Concen: 54.504 ug/l

RT: 5.008 min Scan# 1234

Delta R.T. 0.003 min

Lab File: VV039242.D

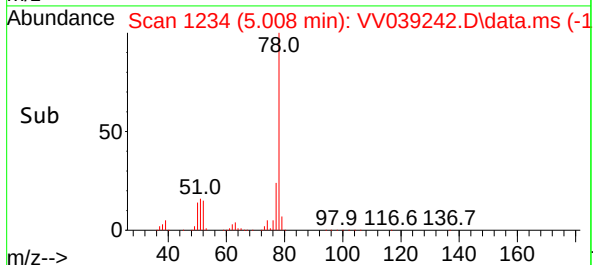
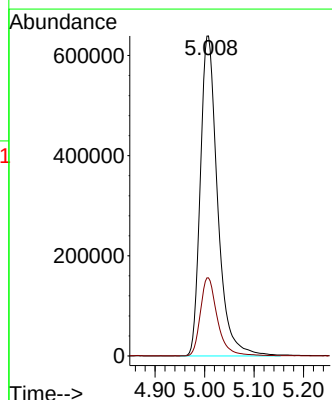
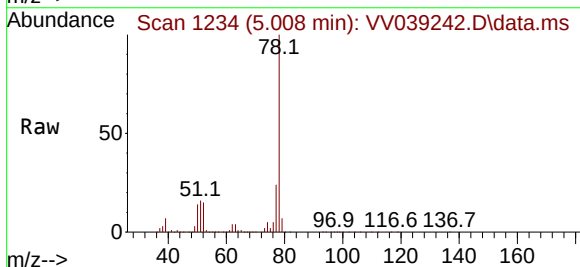
Acq: 03 Oct 2025 08:53

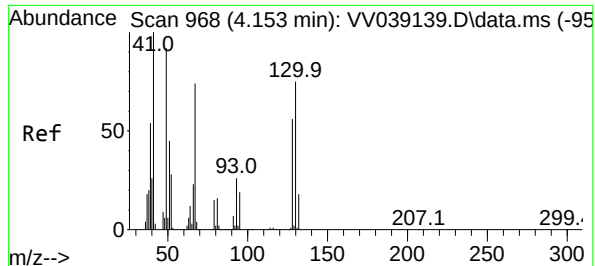
Tgt Ion: 78 Resp: 1548631

Ion Ratio Lower Upper

78 100

77 24.3 18.7 28.1





#41

Methacrylonitrile

Concen: 50.227 ug/l

RT: 4.156 min Scan# 9

Delta R.T. 0.003 min

Lab File: VV039242.D

Acq: 03 Oct 2025 08:53

Instrument :

MSVOA_V

ClientSampleId :

VSTDCCC050

Tgt Ion: 41 Resp: 240482

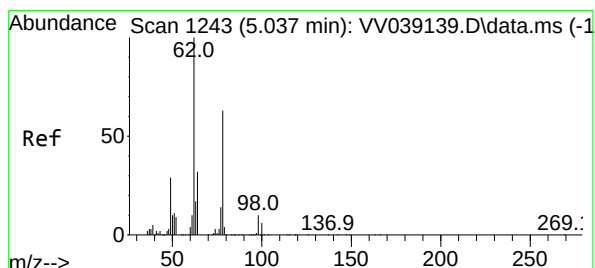
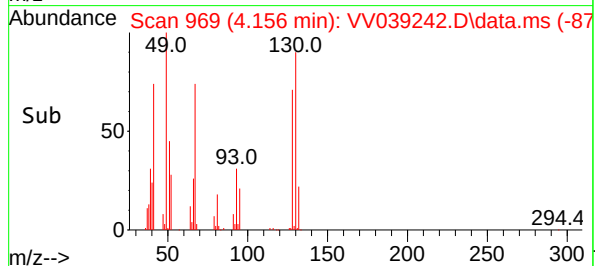
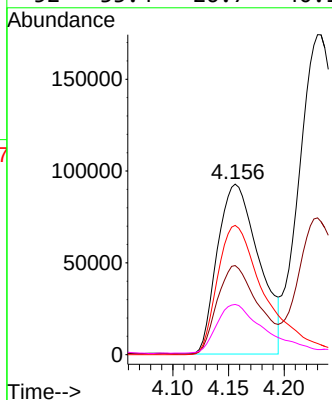
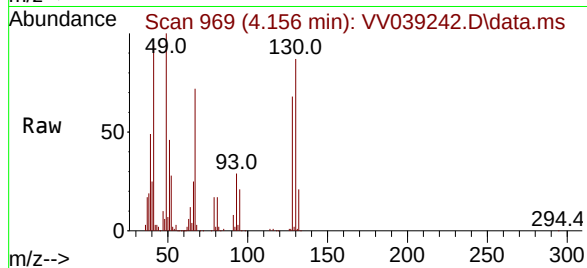
Ion Ratio Lower Upper

41 100

39 51.5 42.2 63.2

67 90.0 67.9 101.9

52 33.4 26.7 40.1



#42

1,2-Dichloroethane

Concen: 53.160 ug/l

RT: 5.037 min Scan# 1243

Delta R.T. -0.000 min

Lab File: VV039242.D

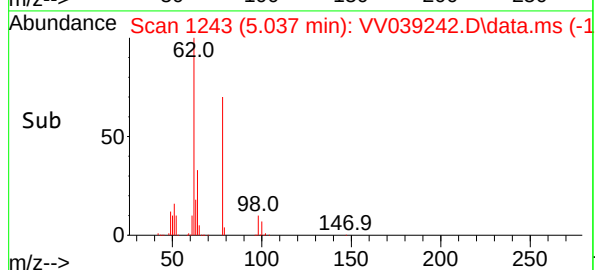
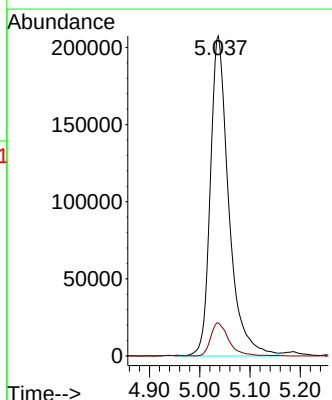
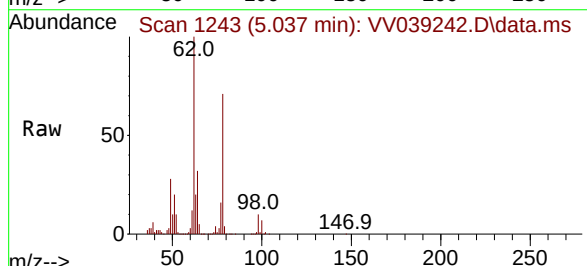
Acq: 03 Oct 2025 08:53

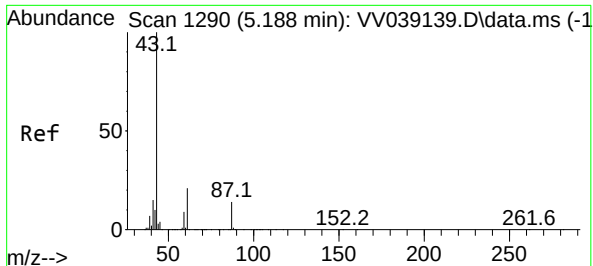
Tgt Ion: 62 Resp: 529233

Ion Ratio Lower Upper

62 100

98 10.1 0.0 19.2





#43

Isopropyl Acetate

Concen: 54.281 ug/l

RT: 5.188 min Scan# 1290

Delta R.T. -0.000 min

Lab File: VV039242.D

Acq: 03 Oct 2025 08:53

Instrument :

MSVOA_V

ClientSampleId :

VSTDCCC050

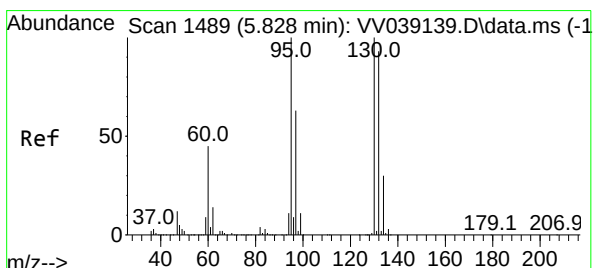
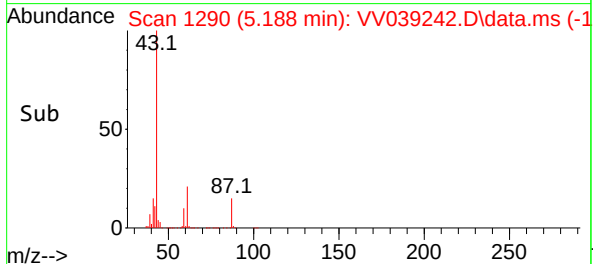
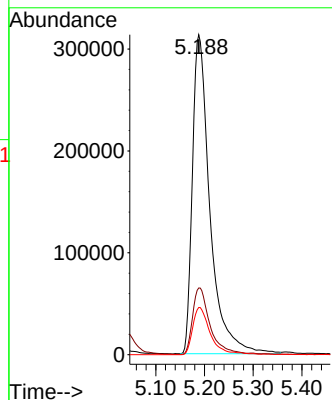
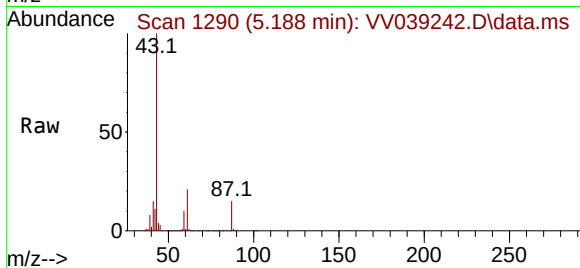
Tgt Ion: 43 Resp: 783601

Ion Ratio Lower Upper

43 100

61 20.5 15.9 23.9

87 14.9 11.0 16.6



#44

Trichloroethene

Concen: 57.993 ug/l

RT: 5.828 min Scan# 1489

Delta R.T. -0.000 min

Lab File: VV039242.D

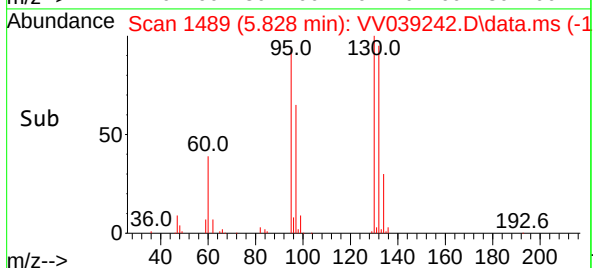
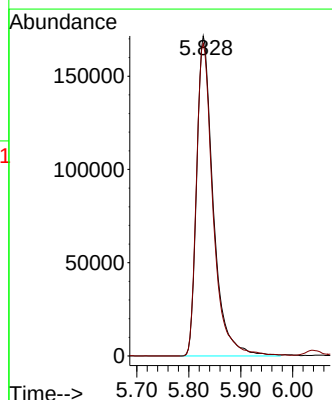
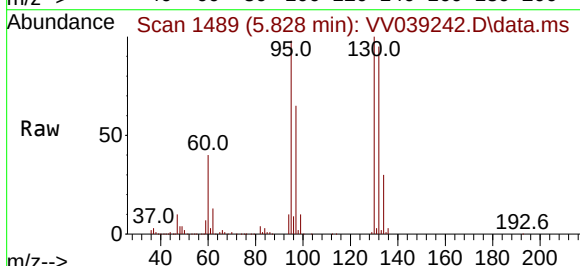
Acq: 03 Oct 2025 08:53

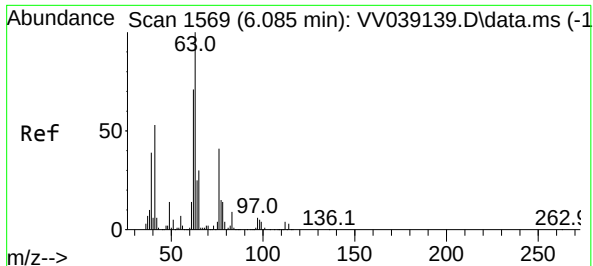
Tgt Ion: 130 Resp: 380227

Ion Ratio Lower Upper

130 100

95 97.7 0.0 199.2





#45

1,2-Dichloropropane

Concen: 56.590 ug/l

RT: 6.085 min Scan# 1569

Delta R.T. -0.000 min

Lab File: VV039242.D

Acq: 03 Oct 2025 08:53

Instrument :

MSVOA_V

ClientSampleId :

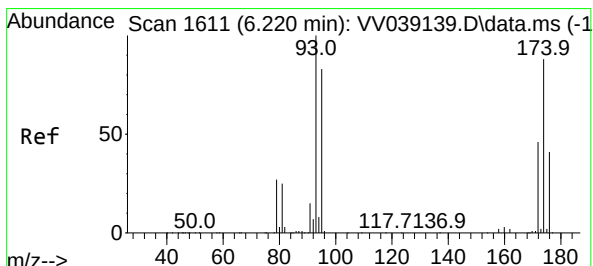
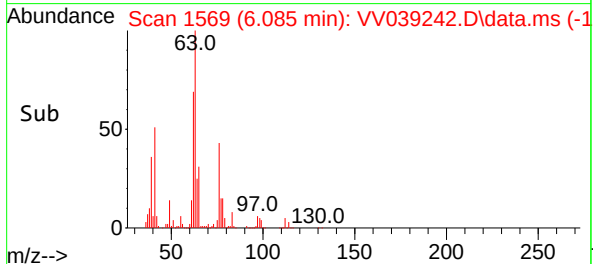
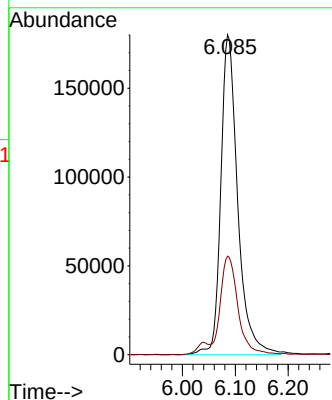
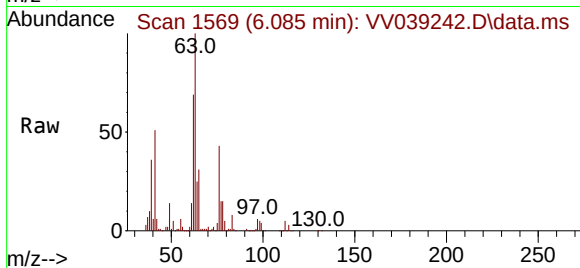
VSTDCCC050

Tgt Ion: 63 Resp: 399651

Ion Ratio Lower Upper

63 100

65 30.8 23.7 35.5



#46

Dibromomethane

Concen: 55.683 ug/l

RT: 6.223 min Scan# 1612

Delta R.T. 0.003 min

Lab File: VV039242.D

Acq: 03 Oct 2025 08:53

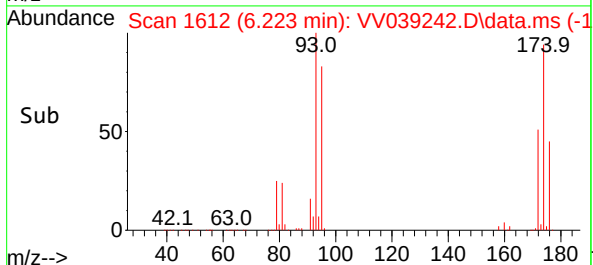
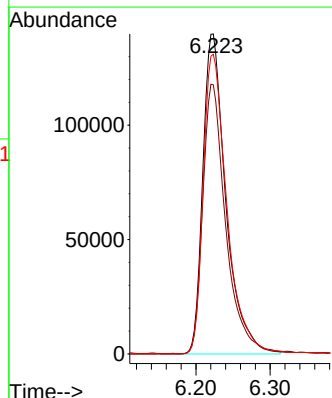
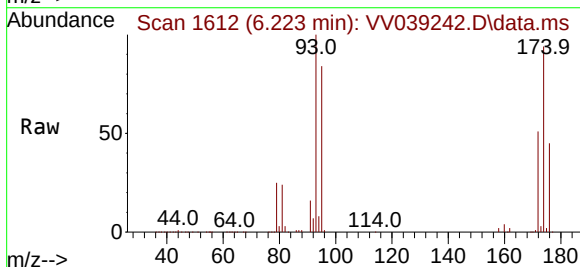
Tgt Ion: 93 Resp: 300983

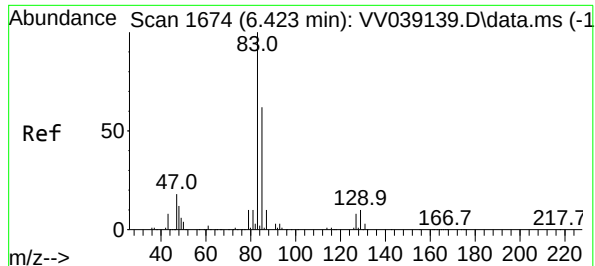
Ion Ratio Lower Upper

93 100

95 83.9 65.5 98.3

174 97.1 69.0 103.4





#47

Bromodichloromethane

Concen: 55.859 ug/l

RT: 6.423 min Scan# 1

Delta R.T. -0.000 min

Lab File: VV039242.D

Acq: 03 Oct 2025 08:53

Instrument :

MSVOA_V

ClientSampleId :

VSTDCCC050

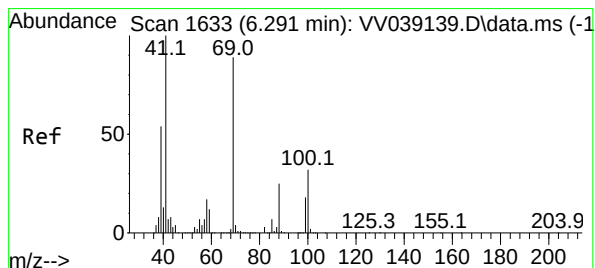
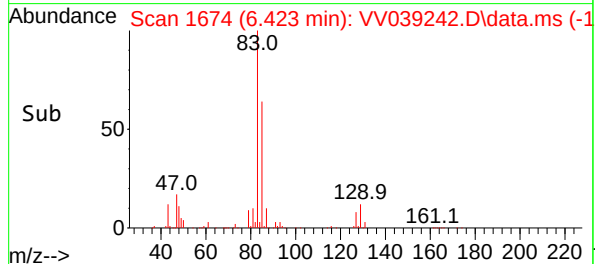
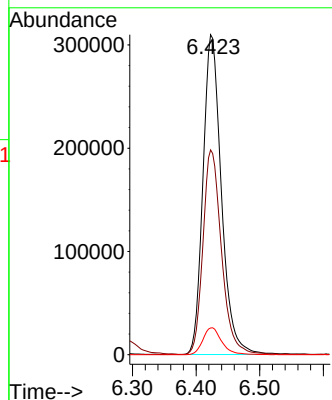
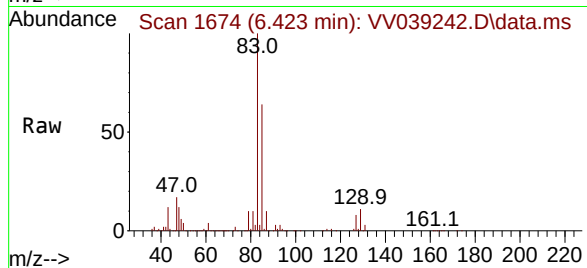
Tgt Ion: 83 Resp: 624205

Ion Ratio Lower Upper

83 100

85 63.9 49.7 74.5

127 8.4 6.6 9.8



#48

Methyl methacrylate

Concen: 55.003 ug/l

RT: 6.294 min Scan# 1634

Delta R.T. 0.003 min

Lab File: VV039242.D

Acq: 03 Oct 2025 08:53

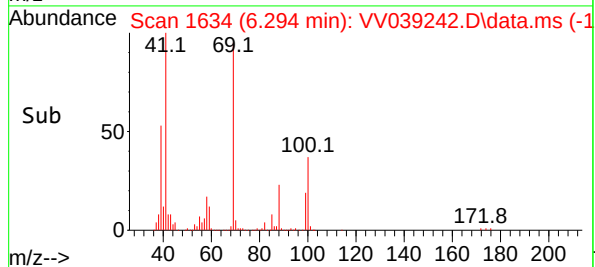
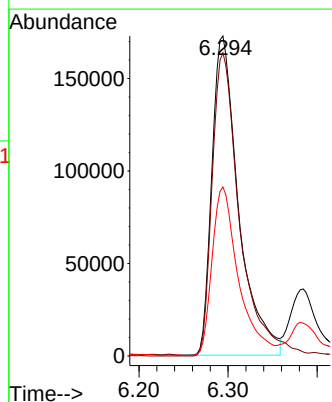
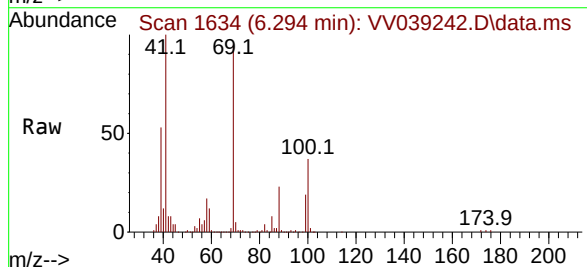
Tgt Ion: 41 Resp: 359934

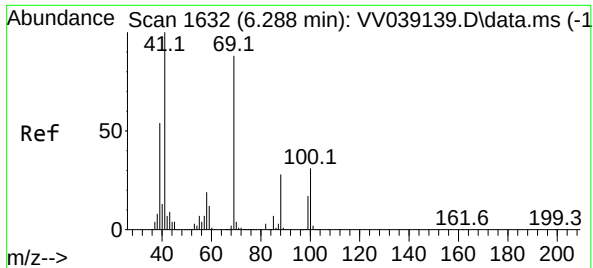
Ion Ratio Lower Upper

41 100

69 97.5 72.4 108.6

39 51.8 42.5 63.7





#49

1,4-Dioxane

Concen: 1030.978 ug/l

RT: 6.288 min Scan# 1

Delta R.T. -0.000 min

Lab File: VV039242.D

Acq: 03 Oct 2025 08:53

Instrument :

MSVOA_V

ClientSampleId :

VSTDCCC050

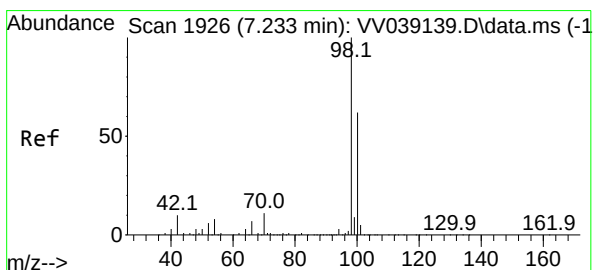
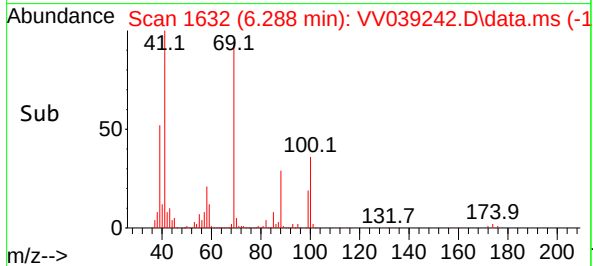
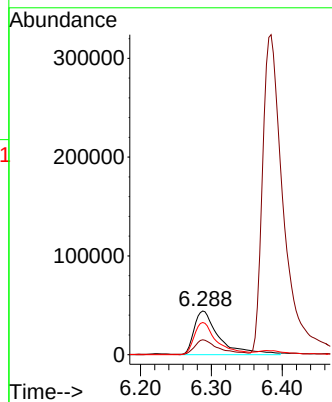
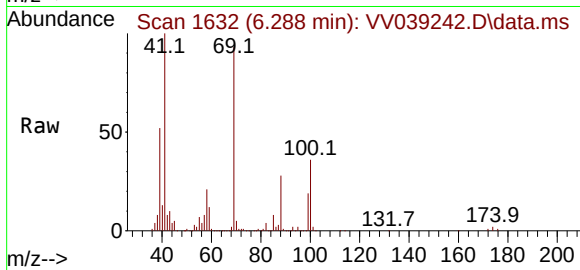
Tgt Ion: 88 Resp: 108875

Ion Ratio Lower Upper

88 100

43 30.3 25.1 37.7

58 66.3 53.6 80.4



#50

Toluene-d8

Concen: 50.551 ug/l

RT: 7.233 min Scan# 1926

Delta R.T. -0.000 min

Lab File: VV039242.D

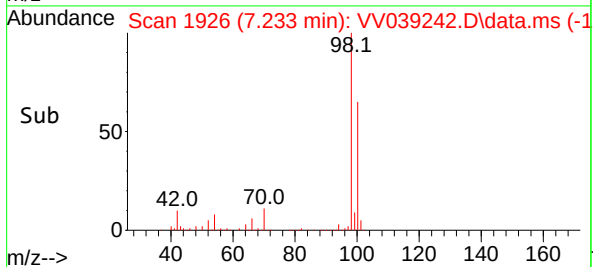
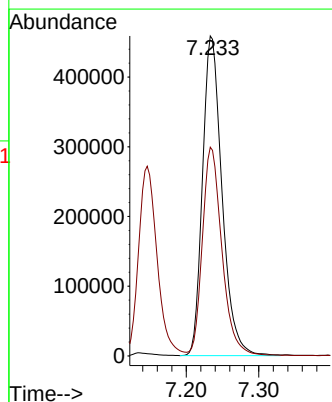
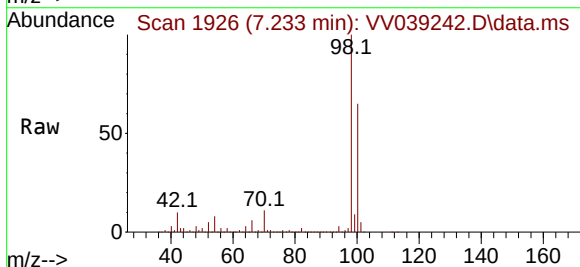
Acq: 03 Oct 2025 08:53

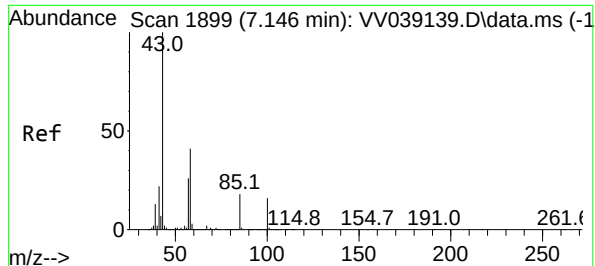
Tgt Ion: 98 Resp: 856835

Ion Ratio Lower Upper

98 100

100 65.1 52.2 78.2

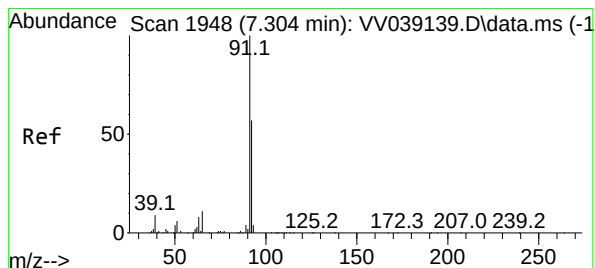
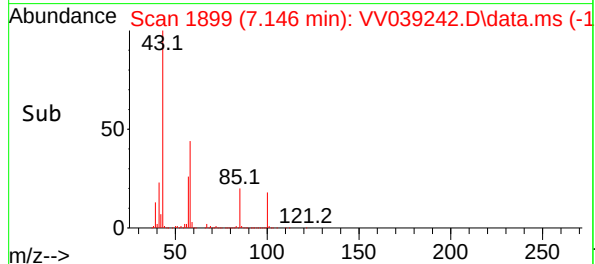
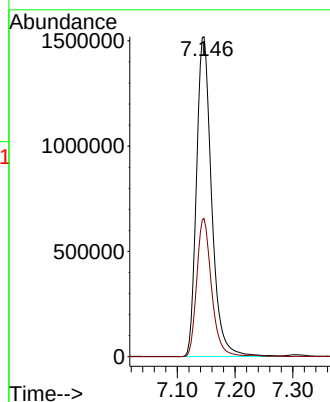
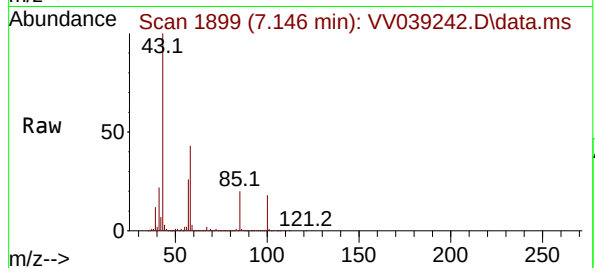




#51
4-Methyl-2-Pentanone
Concen: 290.997 ug/l
RT: 7.146 min Scan# 1899
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

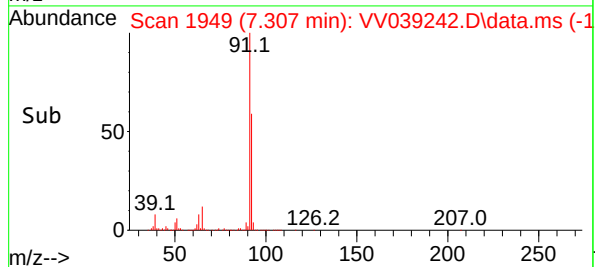
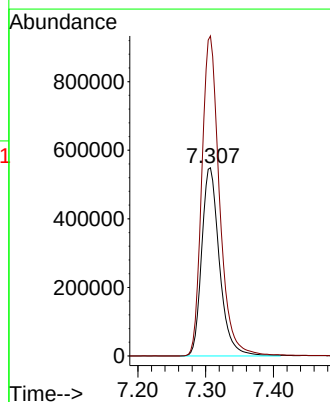
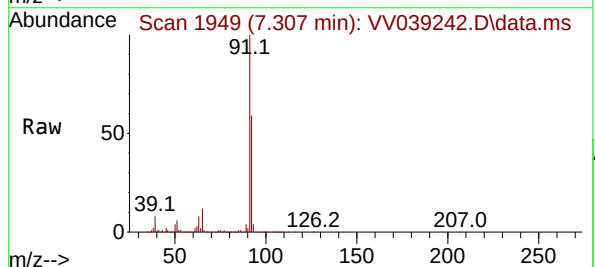
Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

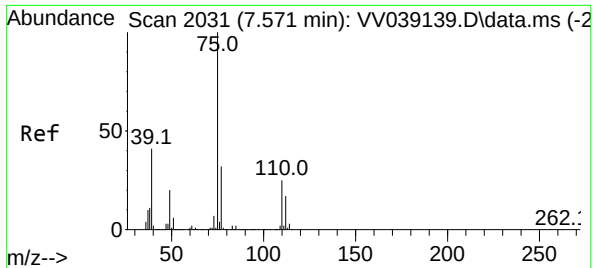
Tgt Ion: 43 Resp: 2763632
Ion Ratio Lower Upper
43 100
58 42.3 32.3 48.5



#52
Toluene
Concen: 60.564 ug/l
RT: 7.307 min Scan# 1949
Delta R.T. 0.003 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Tgt Ion: 92 Resp: 997722
Ion Ratio Lower Upper
92 100
91 170.6 139.2 208.8





#53

t-1,3-Dichloropropene

Concen: 59.756 ug/l

RT: 7.571 min Scan# 2031

Delta R.T. -0.000 min

Lab File: VV039242.D

Acq: 03 Oct 2025 08:53

Instrument :

MSVOA_V

ClientSampleId :

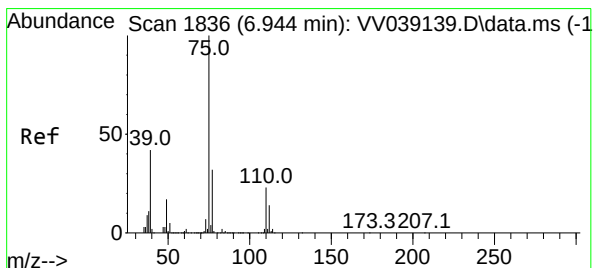
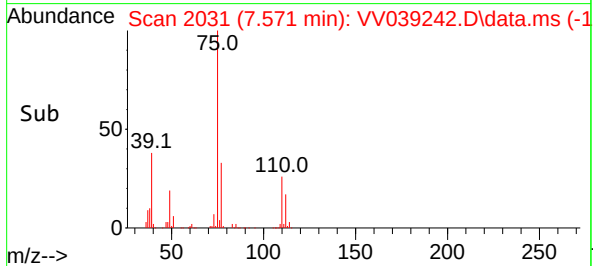
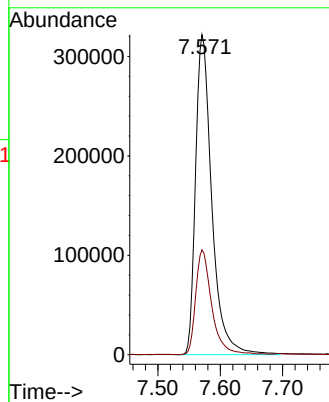
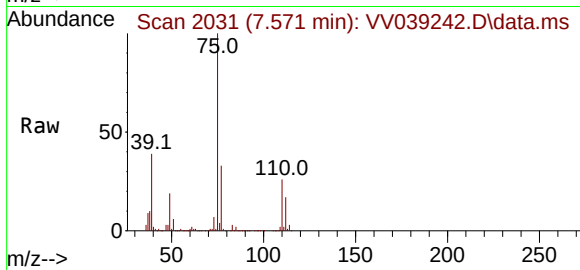
VSTDCCC050

Tgt Ion: 75 Resp: 581937

Ion Ratio Lower Upper

75 100

77 32.7 25.9 38.9



#54

cis-1,3-Dichloropropene

Concen: 59.500 ug/l

RT: 6.944 min Scan# 1836

Delta R.T. -0.000 min

Lab File: VV039242.D

Acq: 03 Oct 2025 08:53

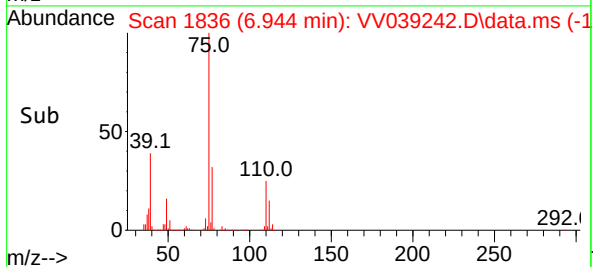
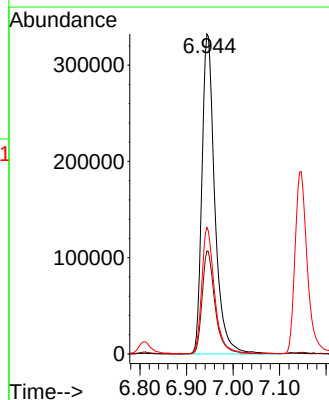
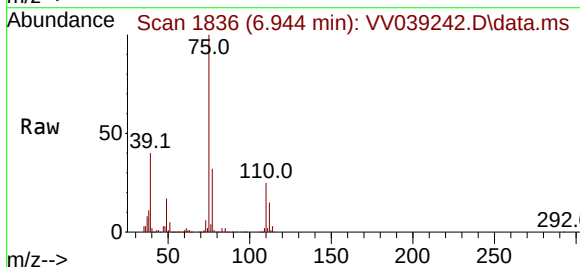
Tgt Ion: 75 Resp: 639668

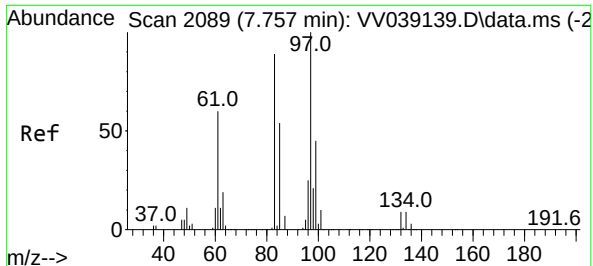
Ion Ratio Lower Upper

75 100

77 32.2 25.5 38.3

39 39.5 33.8 50.6





#55

1,1,2-Trichloroethane

Concen: 57.949 ug/l

RT: 7.757 min Scan# 2089

Delta R.T. 0.000 min

Lab File: VV039242.D

Acq: 03 Oct 2025 08:53

Instrument :

MSVOA_V

ClientSampleId :

VSTDCCC050

Tgt Ion: 97 Resp: 428052

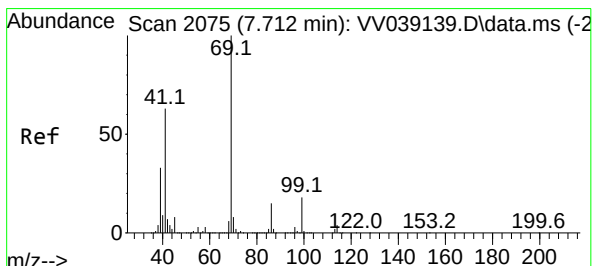
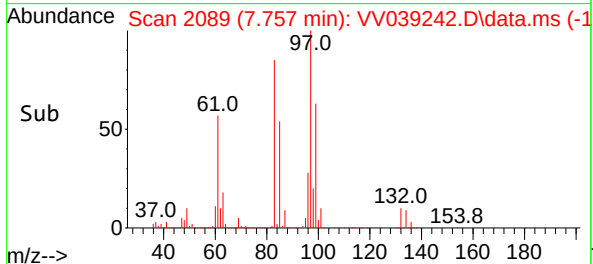
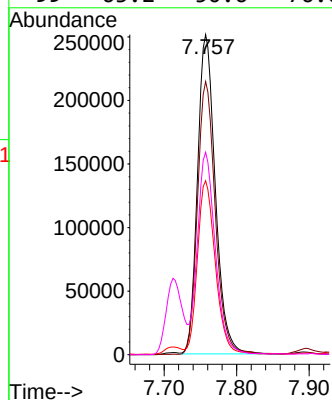
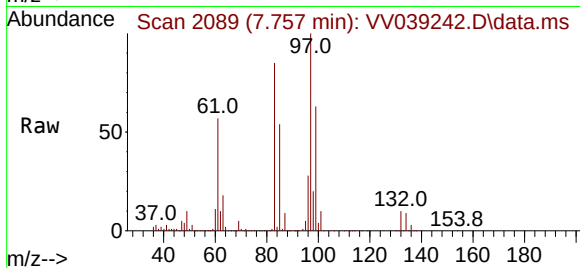
Ion Ratio Lower Upper

97 100

83 85.4 71.1 106.7

85 54.3 44.6 67.0

99 63.2 50.6 76.0



#56

Ethyl methacrylate

Concen: 63.413 ug/l

RT: 7.712 min Scan# 2075

Delta R.T. 0.000 min

Lab File: VV039242.D

Acq: 03 Oct 2025 08:53

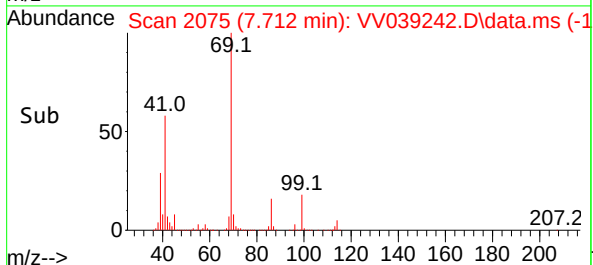
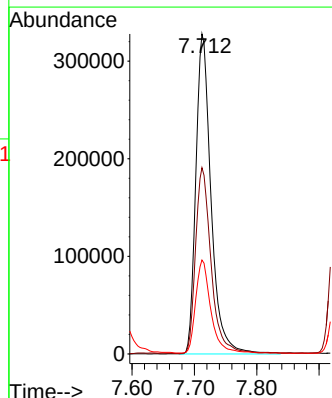
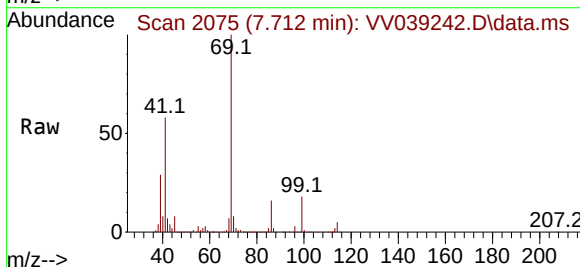
Tgt Ion: 69 Resp: 556268

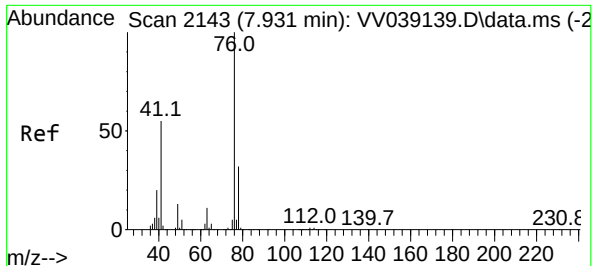
Ion Ratio Lower Upper

69 100

41 58.9 50.7 76.1

39 28.8 26.0 39.0





#57

1,3-Dichloropropane

Concen: 57.955 ug/l

RT: 7.931 min Scan# 2143

Delta R.T. -0.000 min

Lab File: VV039242.D

Acq: 03 Oct 2025 08:53

Instrument :

MSVOA_V

ClientSampleId :

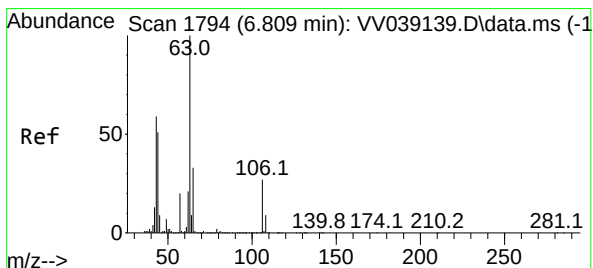
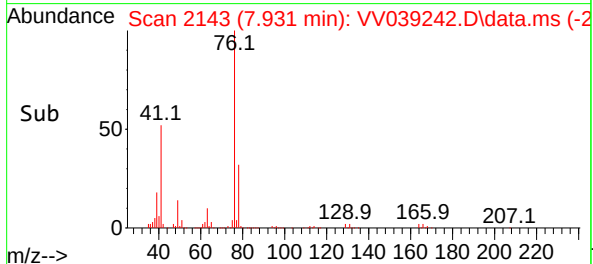
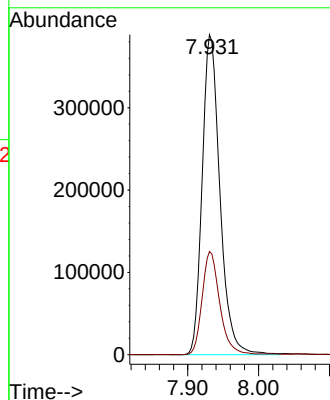
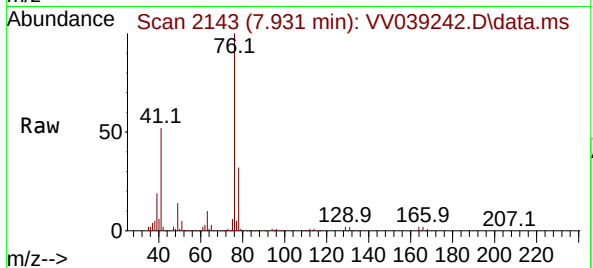
VSTDCCC050

Tgt Ion: 76 Resp: 675609

Ion Ratio Lower Upper

76 100

78 31.9 26.1 39.1



#58

2-Chloroethyl Vinyl ether

Concen: 240.718 ug/l

RT: 6.809 min Scan# 1794

Delta R.T. -0.000 min

Lab File: VV039242.D

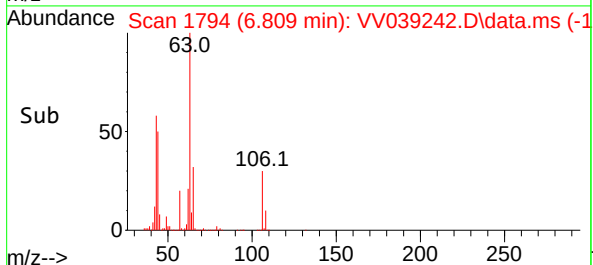
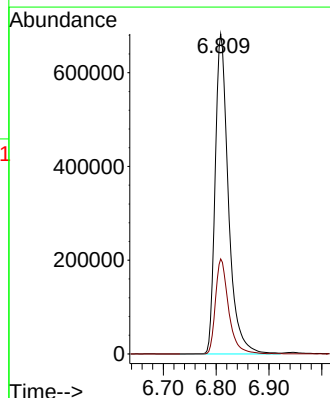
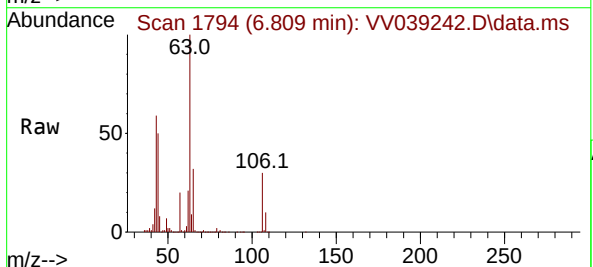
Acq: 03 Oct 2025 08:53

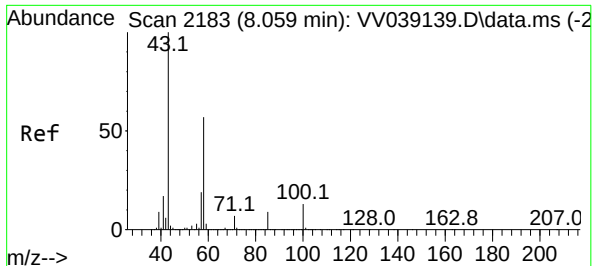
Tgt Ion: 63 Resp: 1190479

Ion Ratio Lower Upper

63 100

106 29.4 22.1 33.1





#59

2-Hexanone

Concen: 270.676 ug/l

RT: 8.059 min Scan# 2183

Delta R.T. 0.000 min

Lab File: VV039242.D

Acq: 03 Oct 2025 08:53

Instrument :

MSVOA_V

ClientSampleId :

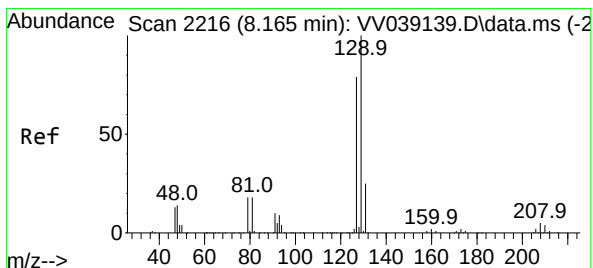
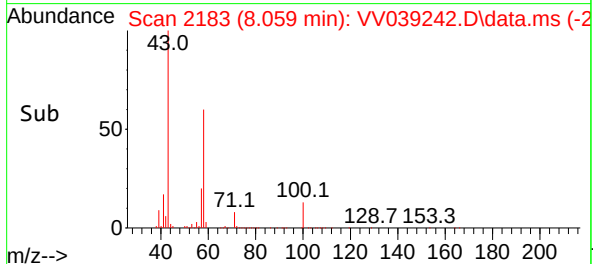
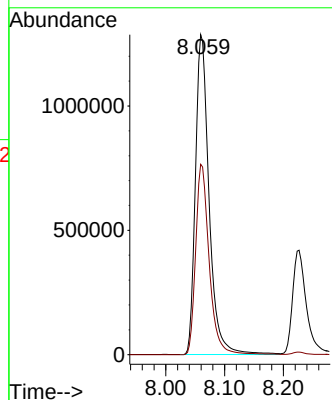
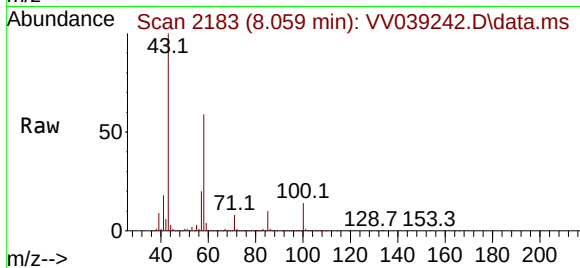
VSTDCCC050

Tgt Ion: 43 Resp: 2076495

Ion Ratio Lower Upper

43 100

58 59.0 28.3 85.0



#60

Dibromochloromethane

Concen: 59.550 ug/l

RT: 8.165 min Scan# 2216

Delta R.T. -0.000 min

Lab File: VV039242.D

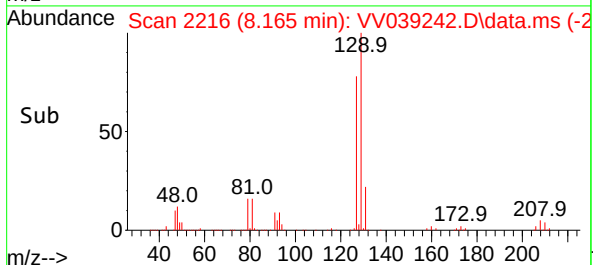
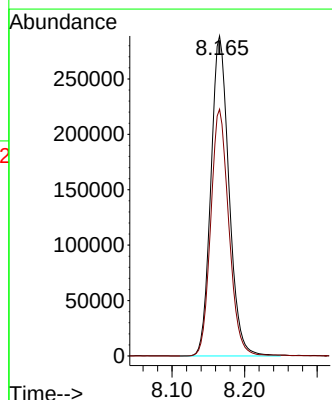
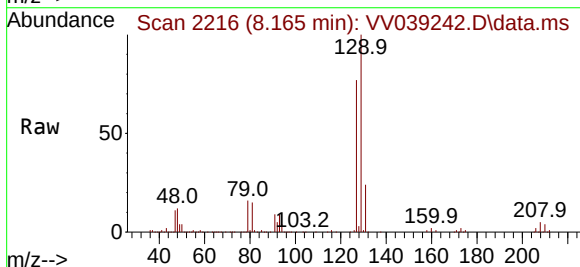
Acq: 03 Oct 2025 08:53

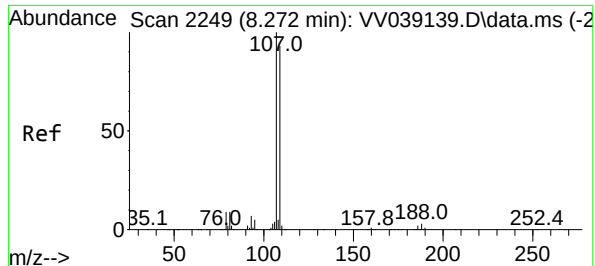
Tgt Ion: 129 Resp: 501215

Ion Ratio Lower Upper

129 100

127 76.9 39.3 117.9





#61

1,2-Dibromoethane

Concen: 59.030 ug/l

RT: 8.272 min Scan# 21

Delta R.T. -0.000 min

Lab File: VV039242.D

Acq: 03 Oct 2025 08:53

Instrument :

MSVOA_V

ClientSampleId :

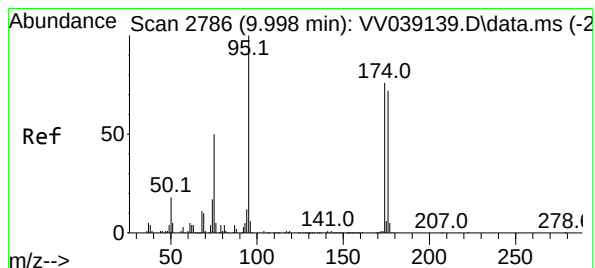
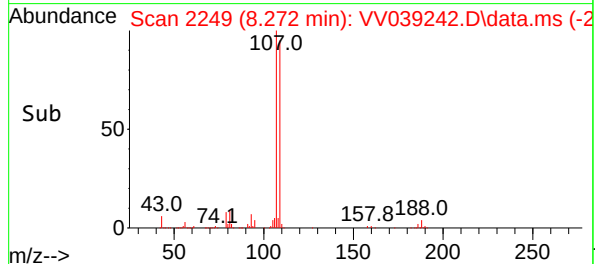
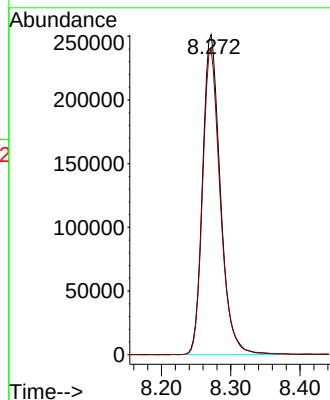
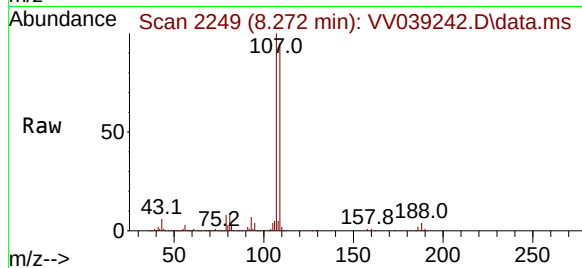
VSTDCCC050

Tgt Ion:107 Resp: 445928

Ion Ratio Lower Upper

107 100

109 95.4 74.6 112.0



#62

4-Bromofluorobenzene

Concen: 60.326 ug/l

RT: 9.998 min Scan# 2786

Delta R.T. -0.000 min

Lab File: VV039242.D

Acq: 03 Oct 2025 08:53

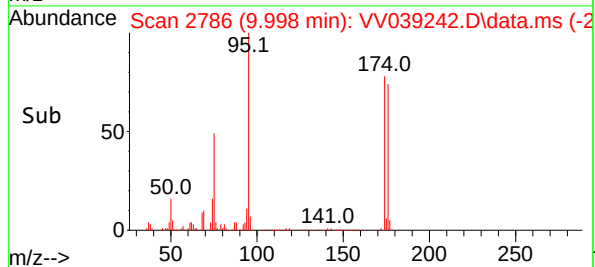
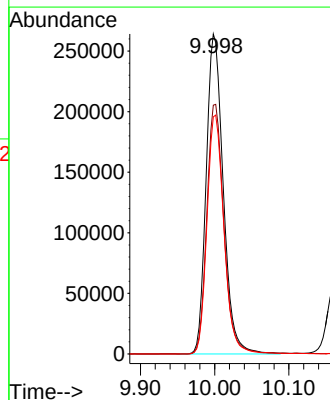
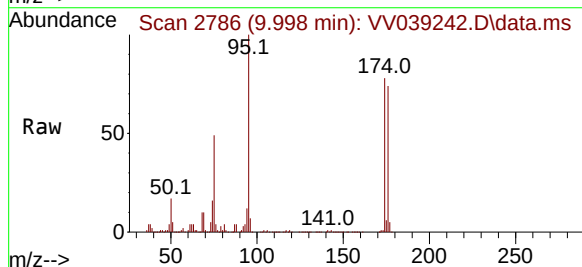
Tgt Ion: 95 Resp: 420941

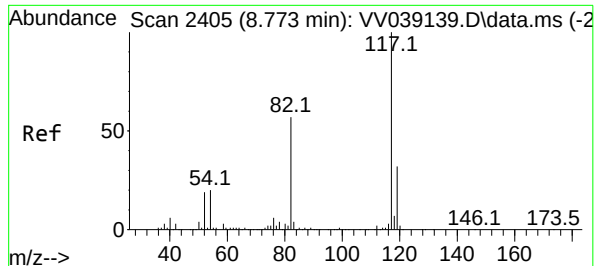
Ion Ratio Lower Upper

95 100

174 78.2 0.0 150.4

176 74.1 0.0 144.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 8.773 min Scan# 2405

Delta R.T. 0.000 min

Lab File: VV039242.D

Acq: 03 Oct 2025 08:53

Instrument :

MSVOA_V

ClientSampleId :

VSTDCCC050

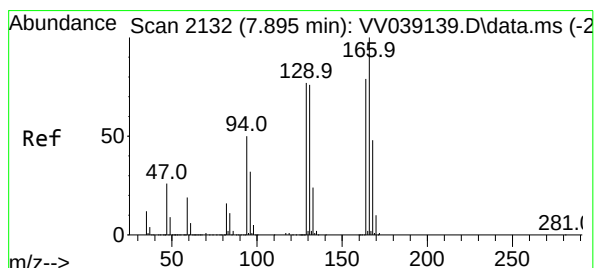
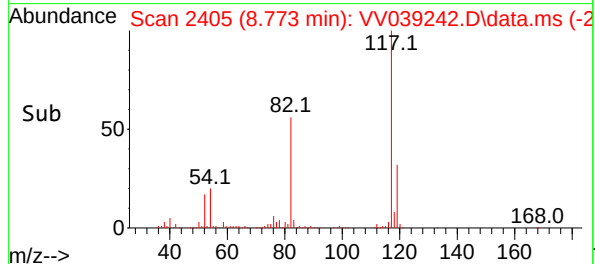
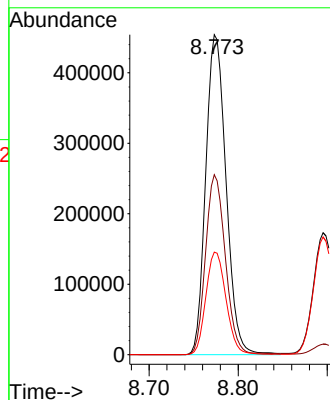
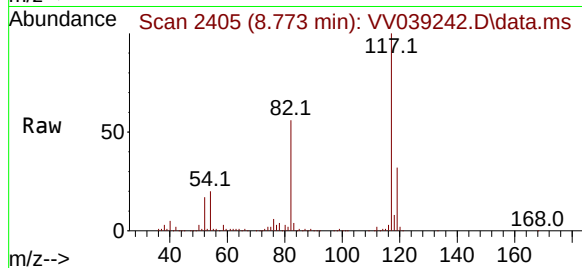
Tgt Ion:117 Resp: 718198

Ion Ratio Lower Upper

117 100

82 56.2 45.4 68.2

119 32.1 25.6 38.4



#64

Tetrachloroethene

Concen: 56.385 ug/l

RT: 7.895 min Scan# 2132

Delta R.T. -0.000 min

Lab File: VV039242.D

Acq: 03 Oct 2025 08:53

Tgt Ion:164 Resp: 339185

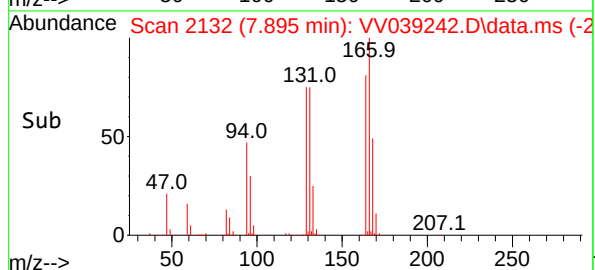
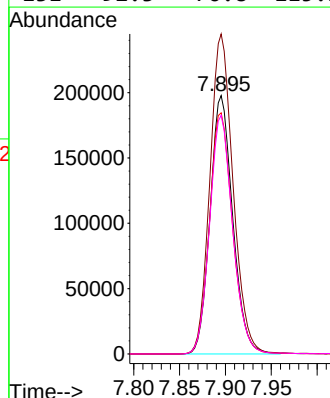
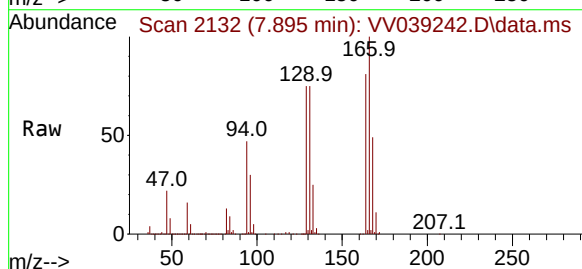
Ion Ratio Lower Upper

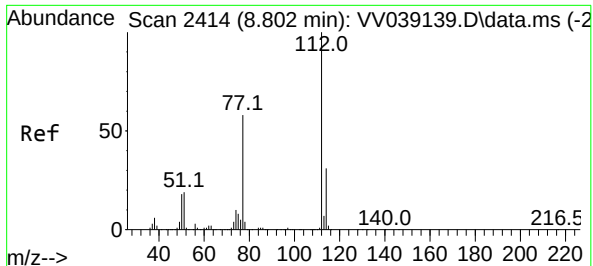
164 100

166 123.9 101.6 152.4

129 93.3 78.5 117.7

131 92.3 76.8 115.2





#65

Chlorobenzene

Concen: 55.521 ug/l

RT: 8.802 min Scan# 2414

Delta R.T. -0.000 min

Lab File: VV039242.D

Acq: 03 Oct 2025 08:53

Instrument :

MSVOA_V

ClientSampleId :

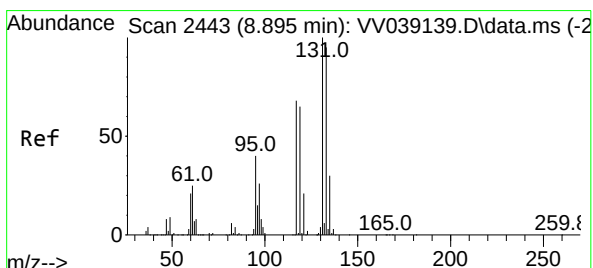
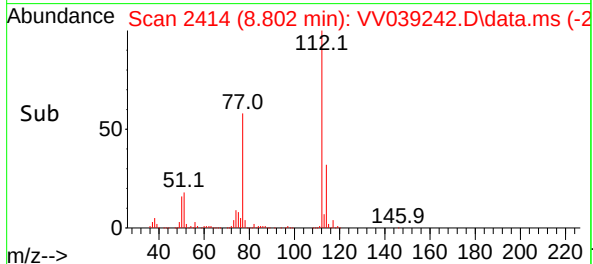
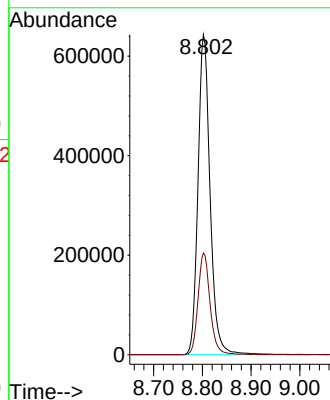
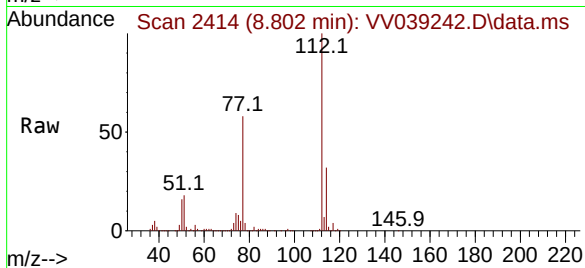
VSTDCCC050

Tgt Ion:112 Resp: 1110690

Ion Ratio Lower Upper

112 100

114 31.8 24.6 37.0



#66

1,1,1,2-Tetrachloroethane

Concen: 57.876 ug/l

RT: 8.895 min Scan# 2443

Delta R.T. -0.000 min

Lab File: VV039242.D

Acq: 03 Oct 2025 08:53

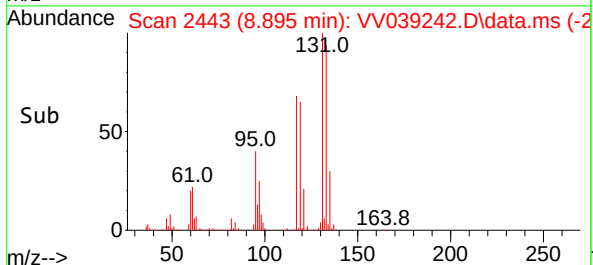
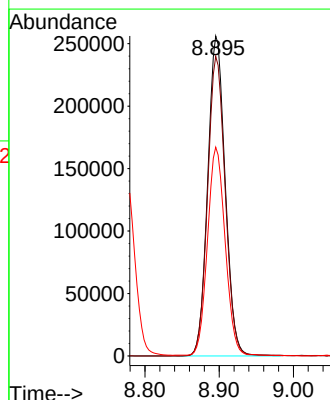
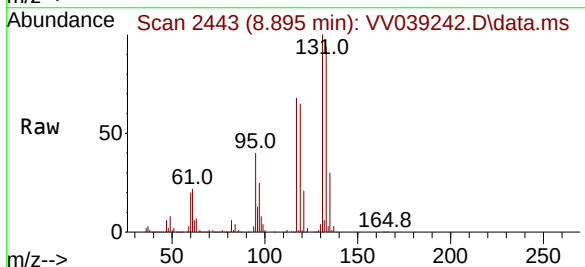
Tgt Ion:131 Resp: 418344

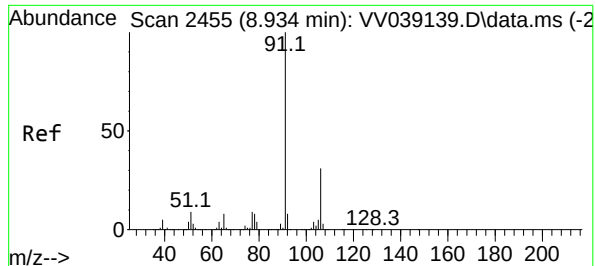
Ion Ratio Lower Upper

131 100

133 94.5 47.3 141.8

119 65.8 33.3 99.8





#67

Ethyl Benzene

Concen: 60.034 ug/l

RT: 8.934 min Scan# 2455

Delta R.T. -0.000 min

Lab File: VV039242.D

Acq: 03 Oct 2025 08:53

Instrument :

MSVOA_V

ClientSampleId :

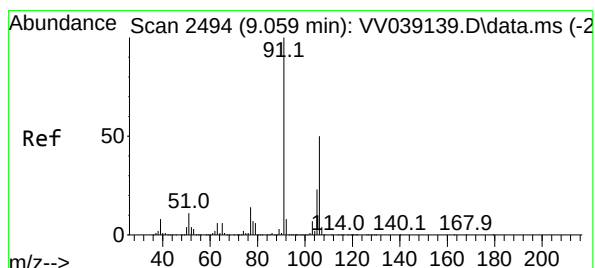
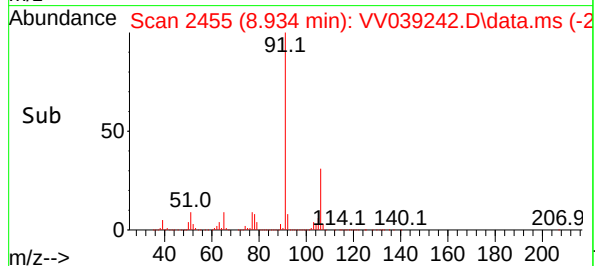
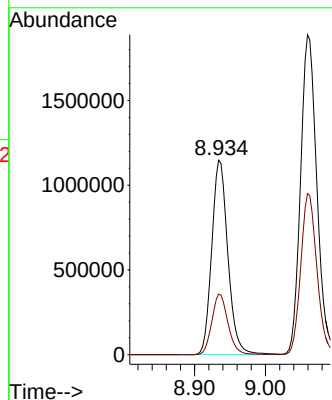
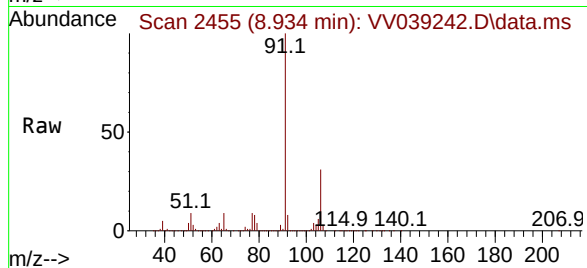
VSTDCCC050

Tgt Ion: 91 Resp: 1817939

Ion Ratio Lower Upper

91 100

106 31.1 24.6 37.0



#68

m/p-Xylenes

Concen: 129.107 ug/l

RT: 9.059 min Scan# 2494

Delta R.T. 0.000 min

Lab File: VV039242.D

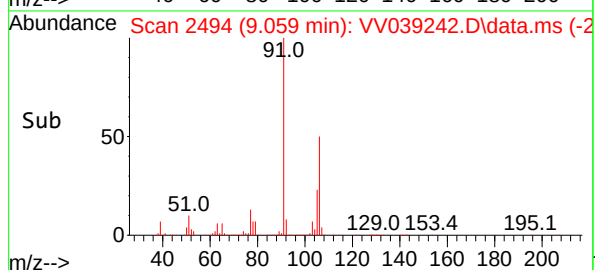
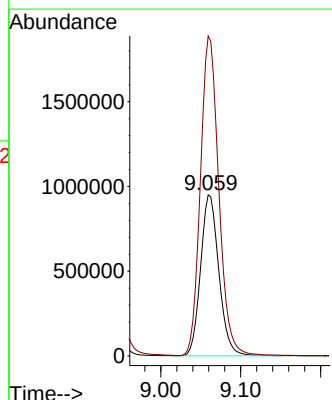
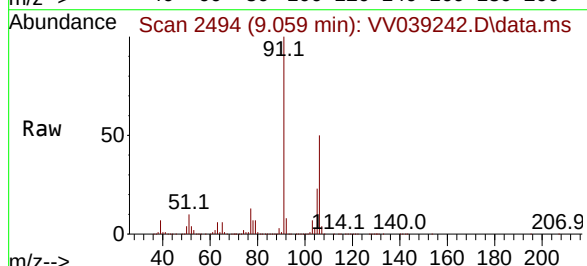
Acq: 03 Oct 2025 08:53

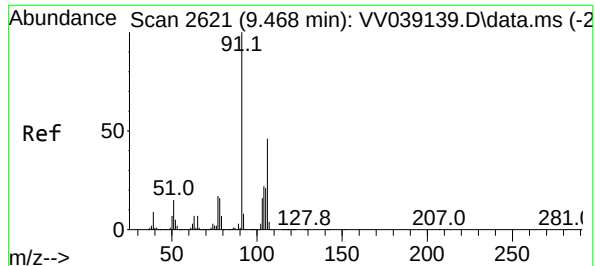
Tgt Ion: 106 Resp: 1508955

Ion Ratio Lower Upper

106 100

91 200.5 162.5 243.7





#69

o-Xylene

Concen: 64.270 ug/l

RT: 9.468 min Scan# 2

Delta R.T. -0.000 min

Lab File: VV039242.D

Acq: 03 Oct 2025 08:53

Instrument :

MSVOA_V

ClientSampleId :

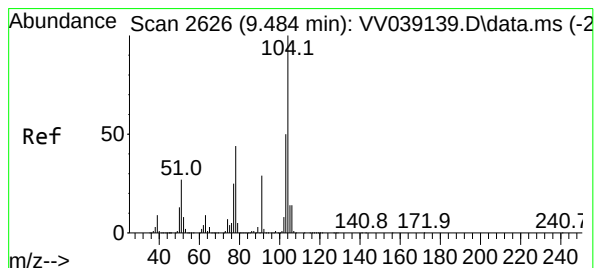
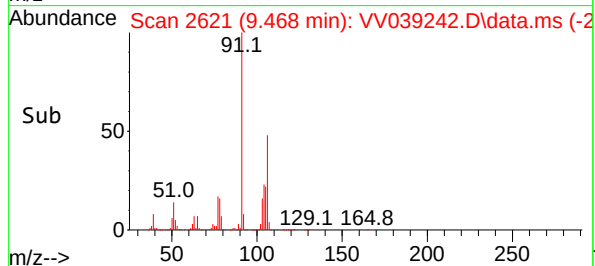
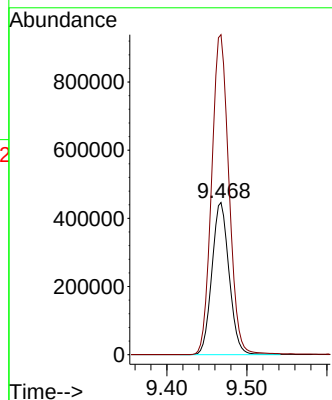
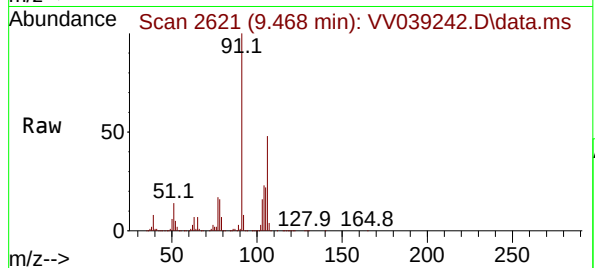
VSTDCCC050

Tgt Ion:106 Resp: 665107

Ion Ratio Lower Upper

106 100

91 212.8 109.1 327.3



#70

Styrene

Concen: 57.814 ug/l

RT: 9.484 min Scan# 2626

Delta R.T. -0.000 min

Lab File: VV039242.D

Acq: 03 Oct 2025 08:53

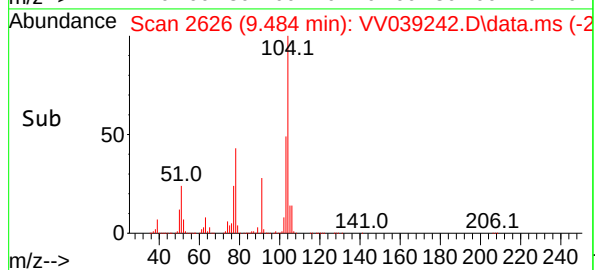
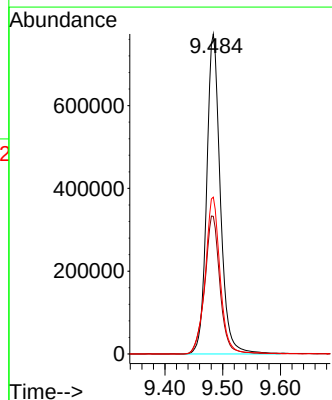
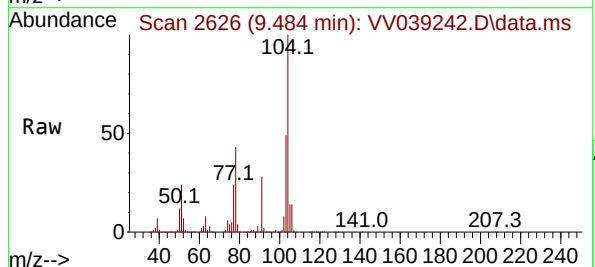
Tgt Ion:104 Resp: 1271498

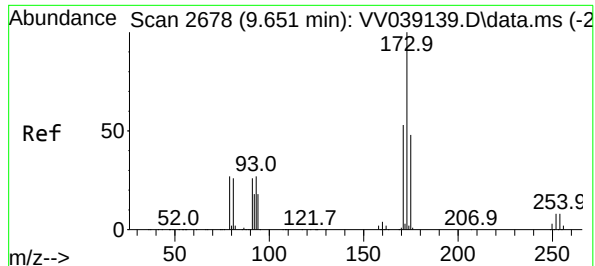
Ion Ratio Lower Upper

104 100

78 48.1 39.8 59.6

103 53.2 43.4 65.2

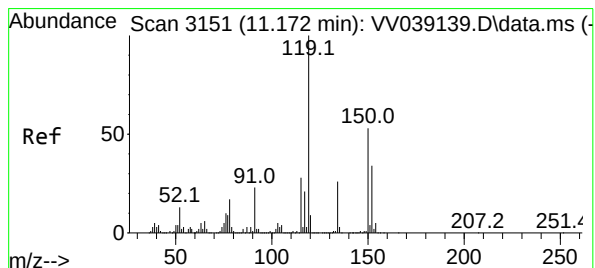
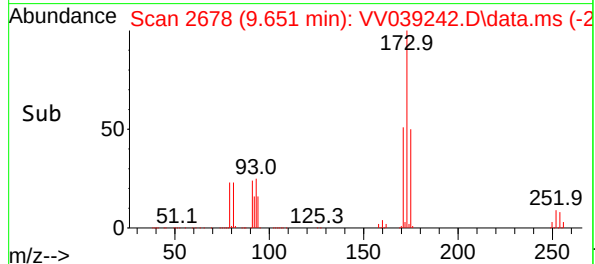
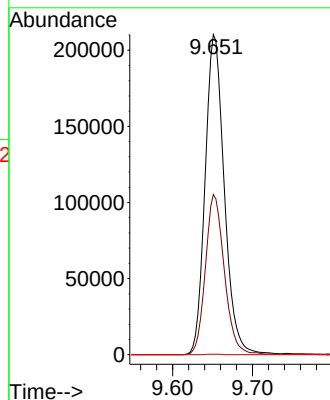
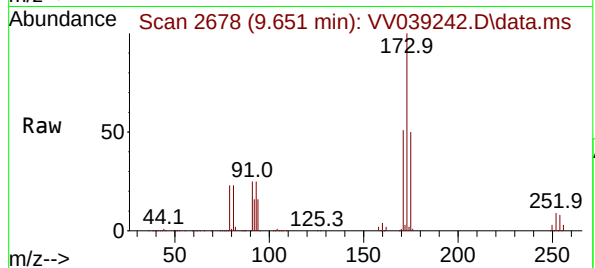




#71
Bromoform
Concen: 62.277 ug/l
RT: 9.651 min Scan# 2678
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

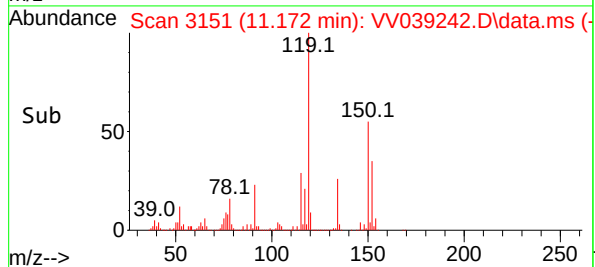
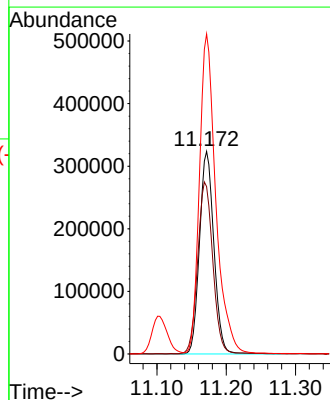
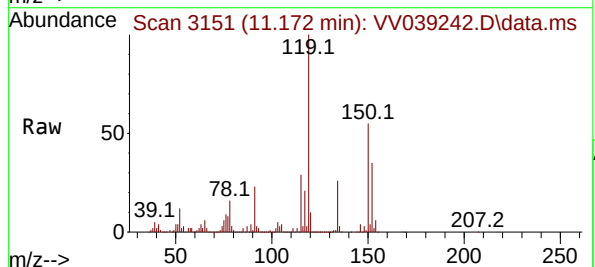
Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

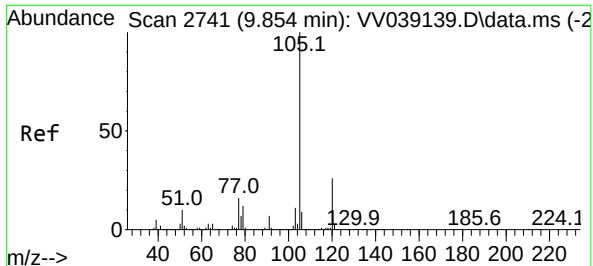
Tgt Ion:173 Resp: 351628
Ion Ratio Lower Upper
173 100
175 49.5 23.9 71.7
254 0.1 0.1 0.1#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3151
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Tgt Ion:152 Resp: 467640
Ion Ratio Lower Upper
152 100
115 89.0 44.8 134.4
150 179.7 0.0 353.8





#73

Isopropylbenzene

Concen: 53.992 ug/l

RT: 9.853 min Scan# 21

Delta R.T. -0.000 min

Lab File: VV039242.D

Acq: 03 Oct 2025 08:53

Instrument :

MSVOA_V

ClientSampleId :

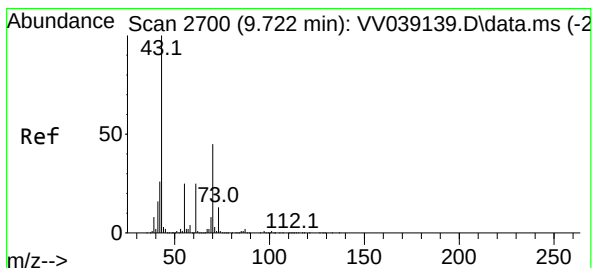
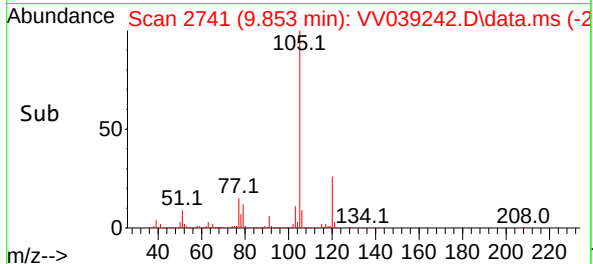
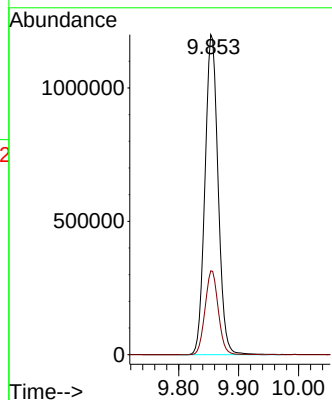
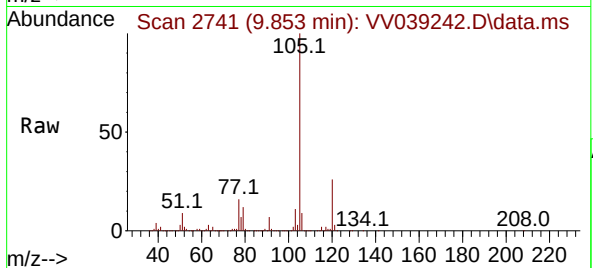
VSTDCCC050

Tgt Ion:105 Resp: 1831320

Ion Ratio Lower Upper

105 100

120 26.4 13.1 39.1



#74

N-ethyl acetate

Concen: 53.488 ug/l

RT: 9.722 min Scan# 2700

Delta R.T. -0.000 min

Lab File: VV039242.D

Acq: 03 Oct 2025 08:53

Tgt Ion: 43 Resp: 723655

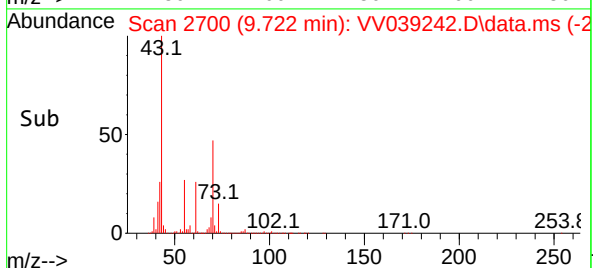
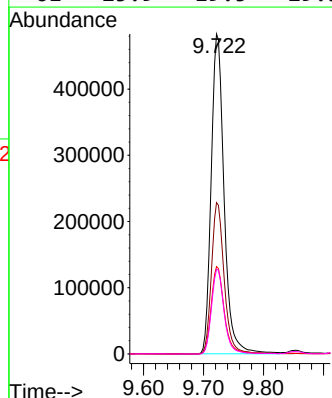
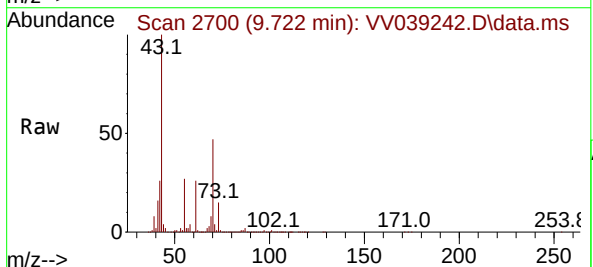
Ion Ratio Lower Upper

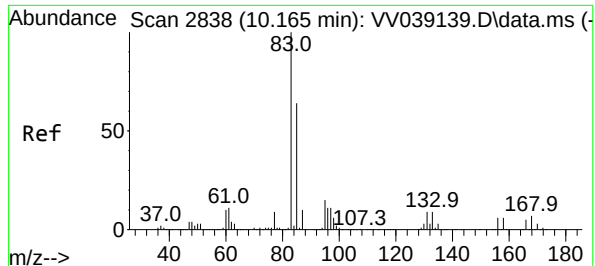
43 100

70 46.8 35.4 53.0

55 27.7 20.6 30.8

61 25.9 19.5 29.3





#75

1,1,2,2-Tetrachloroethane

Concen: 46.331 ug/l

RT: 10.165 min Scan# 2838

Delta R.T. -0.000 min

Lab File: VV039242.D

Acq: 03 Oct 2025 08:53

Instrument :

MSVOA_V

ClientSampleId :

VSTDCCC050

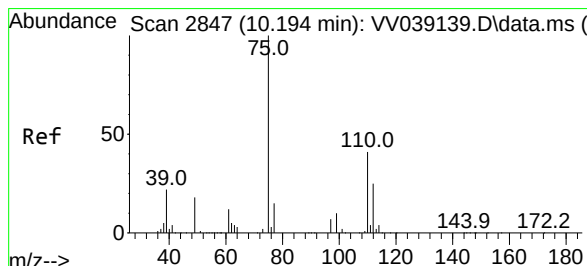
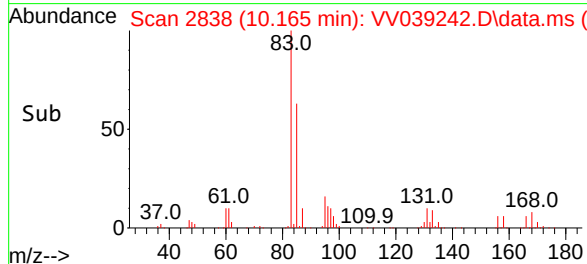
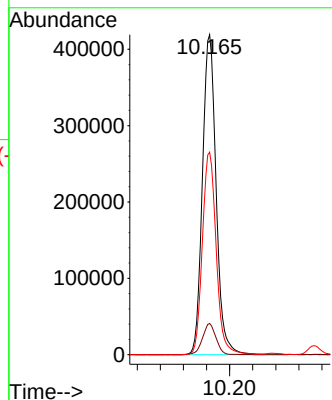
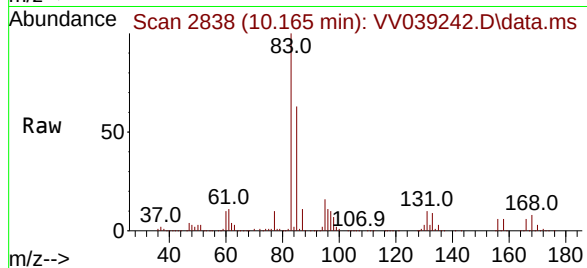
Tgt Ion: 83 Resp: 688542

Ion Ratio Lower Upper

83 100

131 9.6 4.5 13.7

85 63.9 31.9 95.9



#76

1,2,3-Trichloropropane

Concen: 46.268 ug/l

RT: 10.194 min Scan# 2847

Delta R.T. -0.000 min

Lab File: VV039242.D

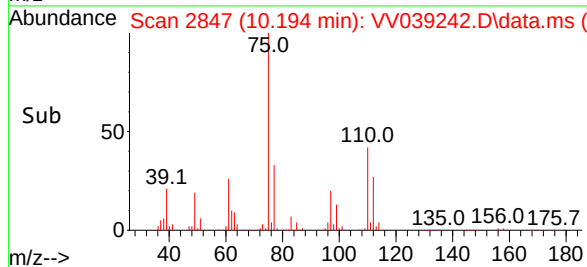
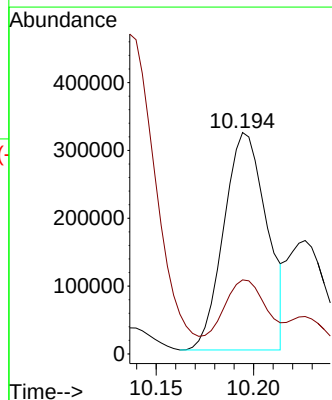
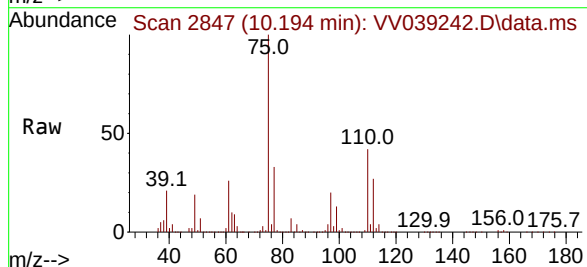
Acq: 03 Oct 2025 08:53

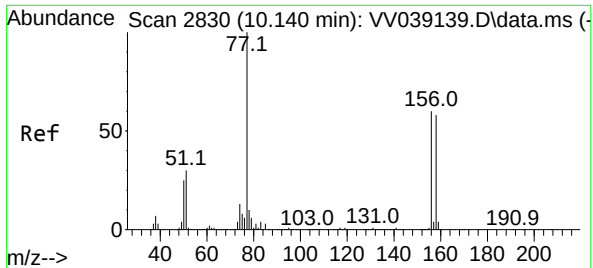
Tgt Ion: 75 Resp: 492632

Ion Ratio Lower Upper

75 100

77 23.0 11.3 33.8

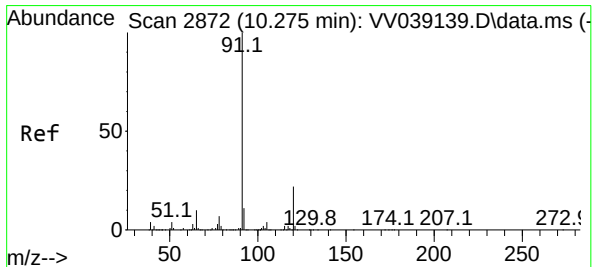
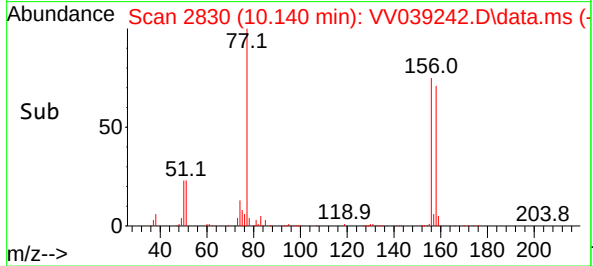
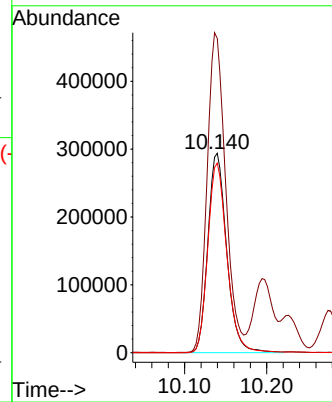
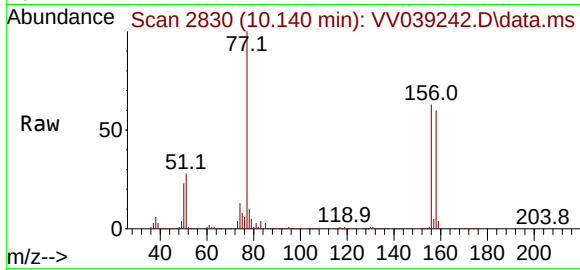




#77
Bromobenzene
Concen: 53.208 ug/l
RT: 10.140 min Scan# 2830
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

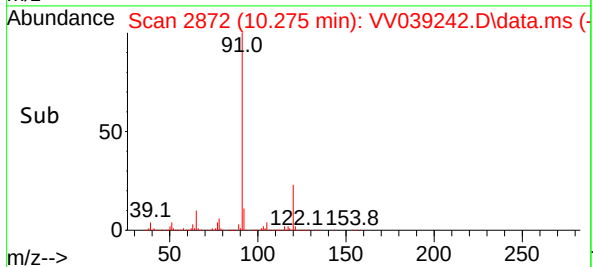
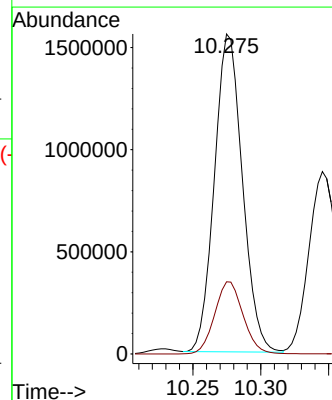
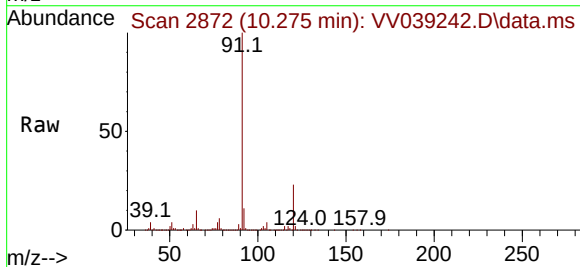
Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

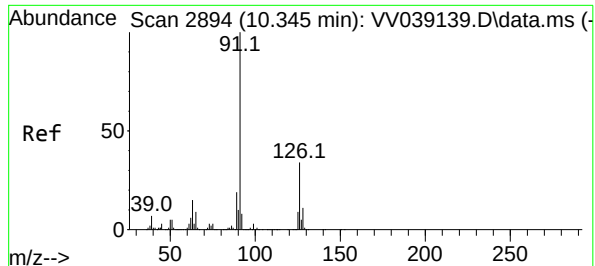
Tgt Ion:156 Resp: 468225
Ion Ratio Lower Upper
156 100
77 157.6 83.4 250.1
158 96.7 48.8 146.4



#78
n-propylbenzene
Concen: 54.089 ug/l
RT: 10.275 min Scan# 2872
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Tgt Ion: 91 Resp: 2234110
Ion Ratio Lower Upper
91 100
120 23.1 11.1 33.3





#79

2-Chlorotoluene

Concen: 54.565 ug/l

RT: 10.345 min Scan# 2894

Delta R.T. -0.000 min

Lab File: VV039242.D

Acq: 03 Oct 2025 08:53

Instrument :

MSVOA_V

ClientSampleId :

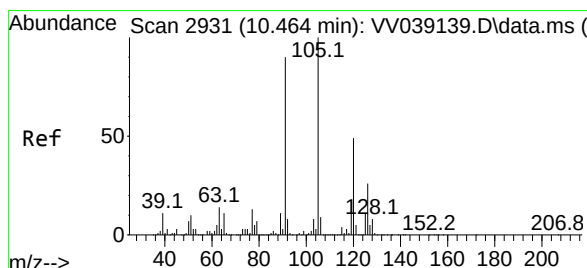
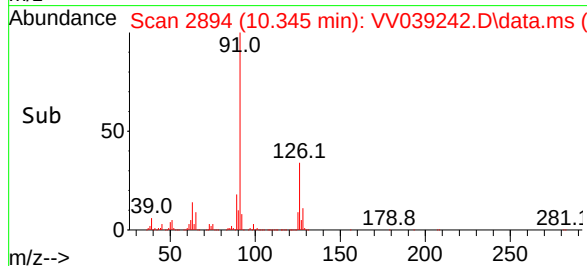
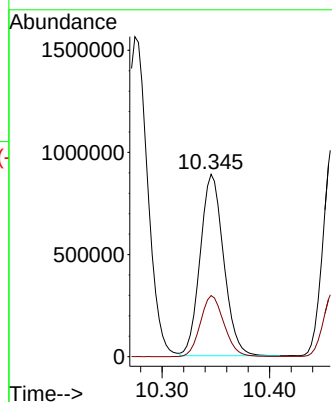
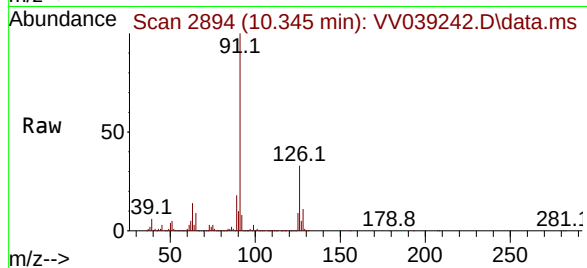
VSTDCCC050

Tgt Ion: 91 Resp: 1348583

Ion Ratio Lower Upper

91 100

126 33.9 16.7 50.0



#80

1,3,5-Trimethylbenzene

Concen: 56.508 ug/l

RT: 10.461 min Scan# 2930

Delta R.T. -0.003 min

Lab File: VV039242.D

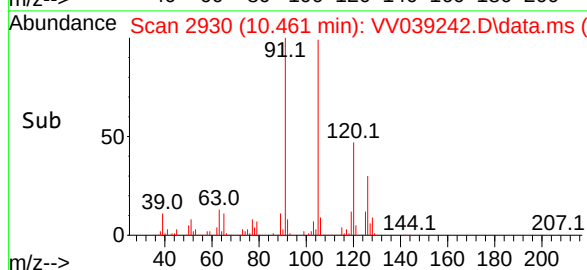
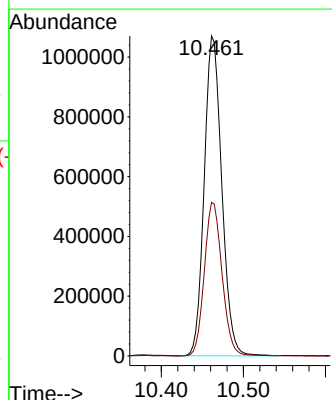
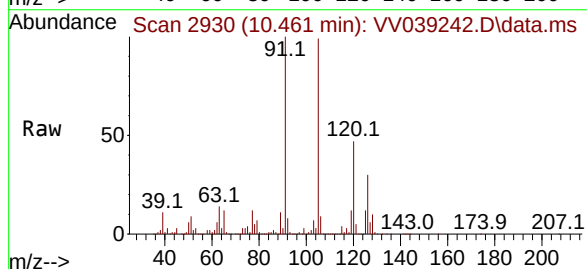
Acq: 03 Oct 2025 08:53

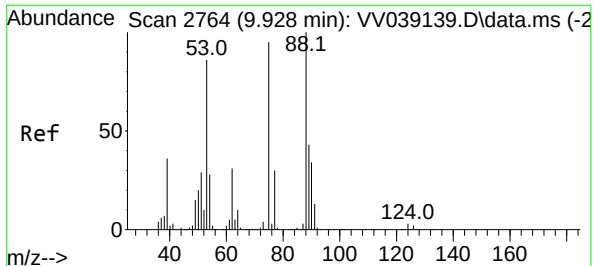
Tgt Ion: 105 Resp: 1593104

Ion Ratio Lower Upper

105 100

120 48.4 24.3 72.8

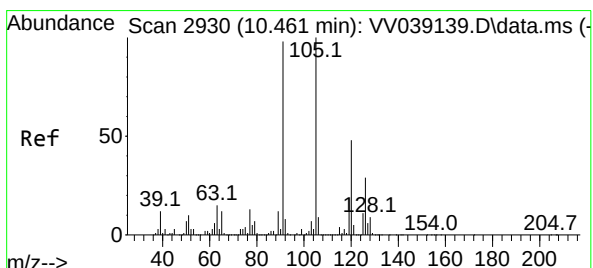
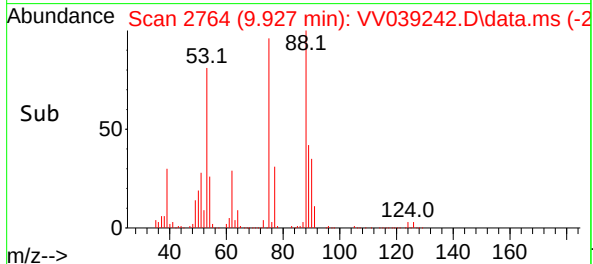
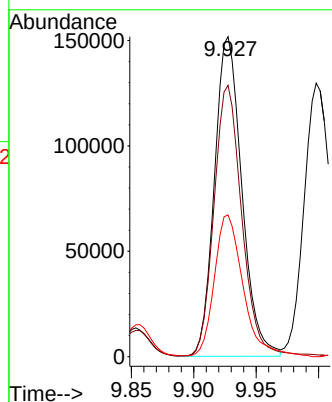
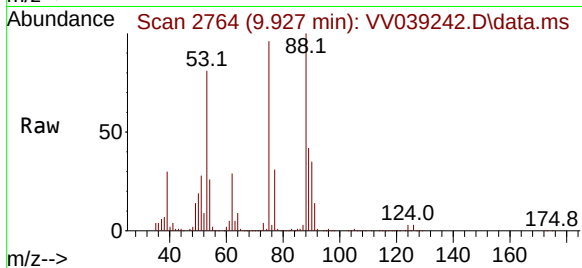




#81
trans-1,4-Dichloro-2-butene
Concen: 52.378 ug/l
RT: 9.927 min Scan# 21
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

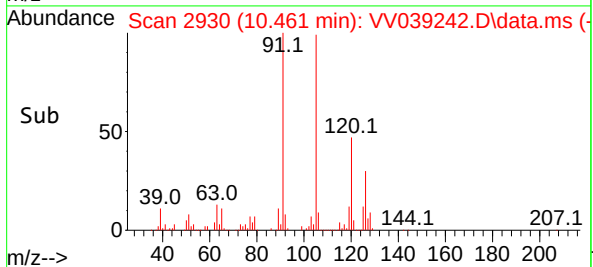
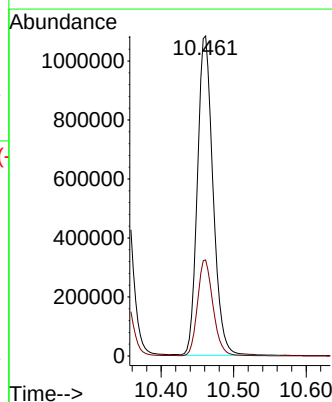
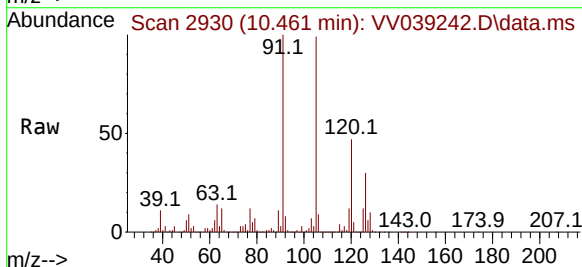
Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

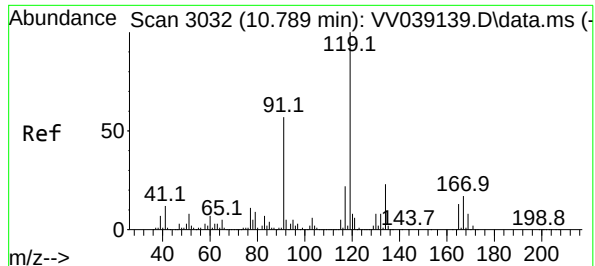
Tgt Ion: 75 Resp: 232306
Ion Ratio Lower Upper
75 100
53 85.4 72.5 108.7
89 46.8 37.2 55.8



#82
4-Chlorotoluene
Concen: 56.397 ug/l
RT: 10.461 min Scan# 2930
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Tgt Ion: 91 Resp: 1616280
Ion Ratio Lower Upper
91 100
126 29.9 14.5 43.6





#83

tert-Butylbenzene

Concen: 52.950 ug/l

RT: 10.789 min Scan# 3032

Delta R.T. -0.000 min

Lab File: VV039242.D

Acq: 03 Oct 2025 08:53

Instrument :

MSVOA_V

ClientSampleId :

VSTDCCC050

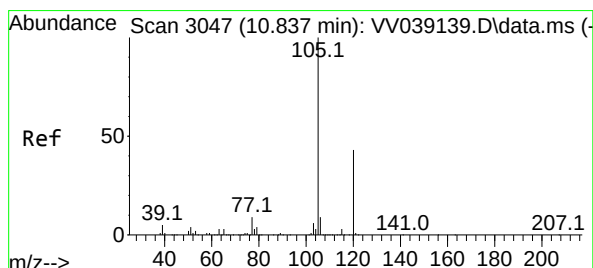
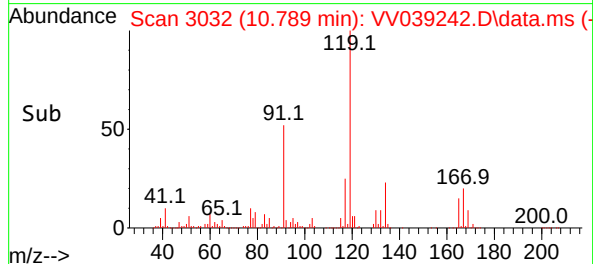
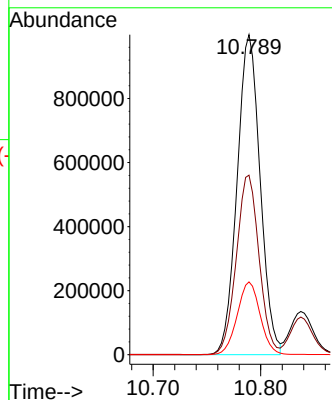
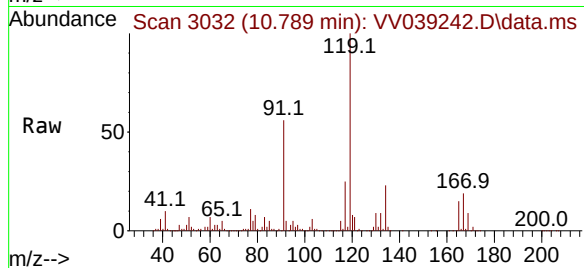
Tgt Ion:119 Resp: 1488535

Ion Ratio Lower Upper

119 100

91 55.5 28.5 85.6

134 22.7 11.5 34.4



#84

1,2,4-Trimethylbenzene

Concen: 58.464 ug/l

RT: 10.837 min Scan# 3047

Delta R.T. -0.000 min

Lab File: VV039242.D

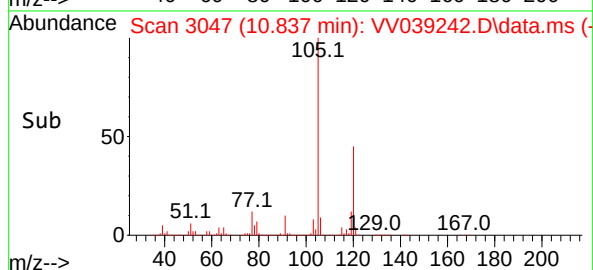
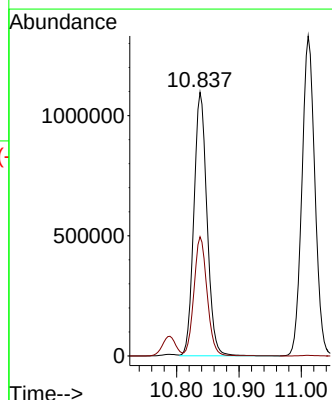
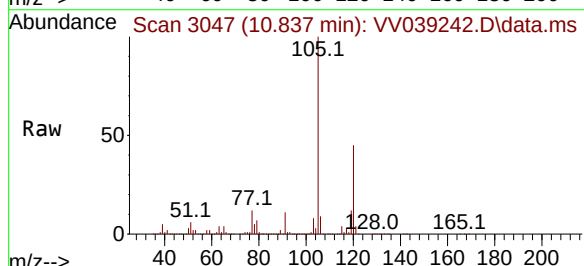
Acq: 03 Oct 2025 08:53

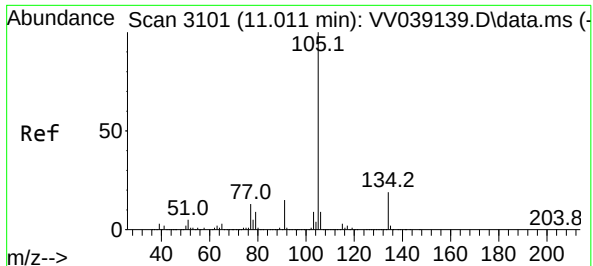
Tgt Ion:105 Resp: 1600180

Ion Ratio Lower Upper

105 100

120 45.5 22.4 67.2





#85

sec-Butylbenzene

Concen: 51.585 ug/l

RT: 11.011 min Scan# 3101

Delta R.T. -0.000 min

Lab File: VV039242.D

Acq: 03 Oct 2025 08:53

Instrument :

MSVOA_V

ClientSampleId :

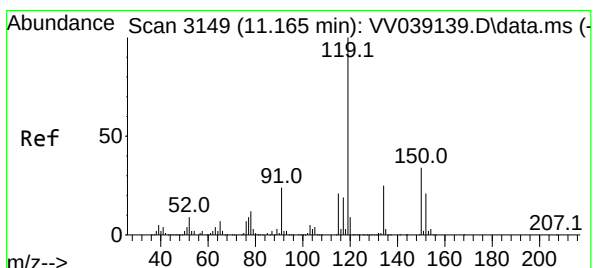
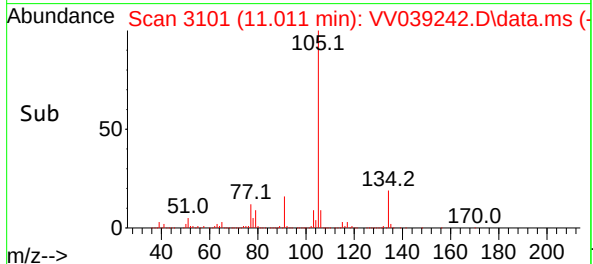
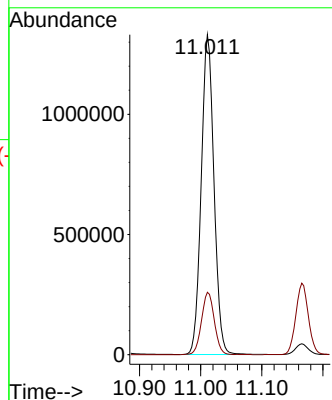
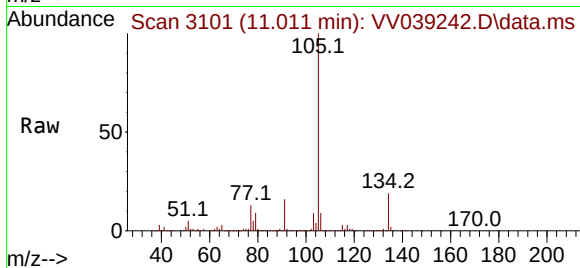
VSTDCCC050

Tgt Ion:105 Resp: 1923460

Ion Ratio Lower Upper

105 100

134 19.6 9.6 28.8



#86

p-Isopropyltoluene

Concen: 53.245 ug/l

RT: 11.165 min Scan# 3149

Delta R.T. -0.000 min

Lab File: VV039242.D

Acq: 03 Oct 2025 08:53

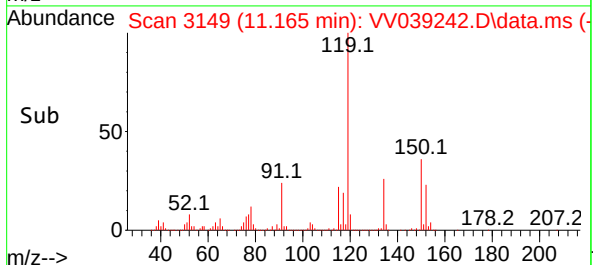
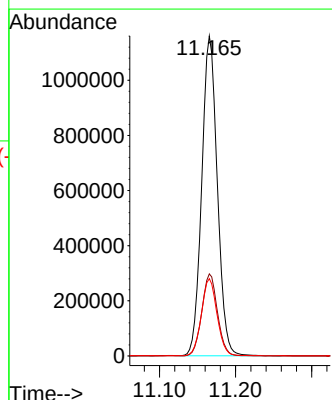
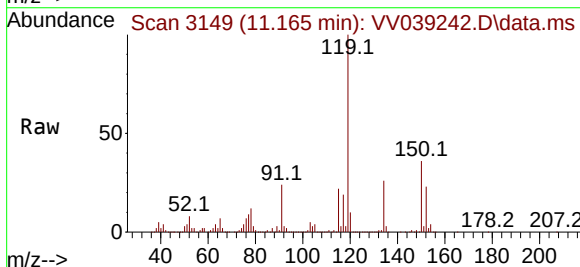
Tgt Ion:119 Resp: 1652409

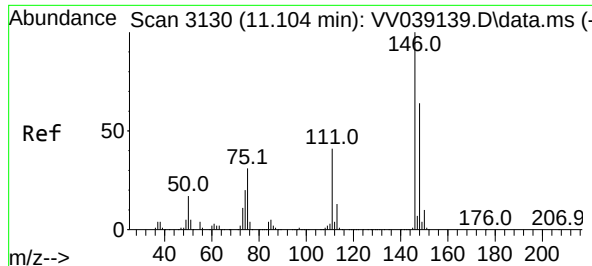
Ion Ratio Lower Upper

119 100

134 25.7 12.7 38.0

91 24.0 12.0 36.1





#87

1,3-Dichlorobenzene

Concen: 52.464 ug/l

RT: 11.104 min Scan# 3130

Delta R.T. -0.000 min

Lab File: VV039242.D

Acq: 03 Oct 2025 08:53

Instrument :

MSVOA_V

ClientSampleId :

VSTDCCC050

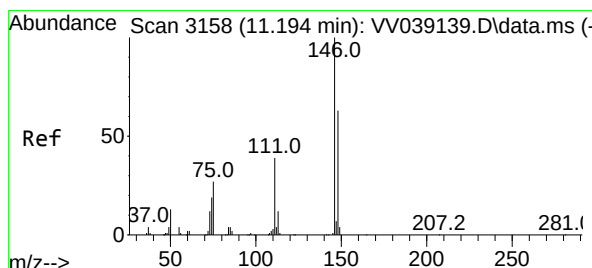
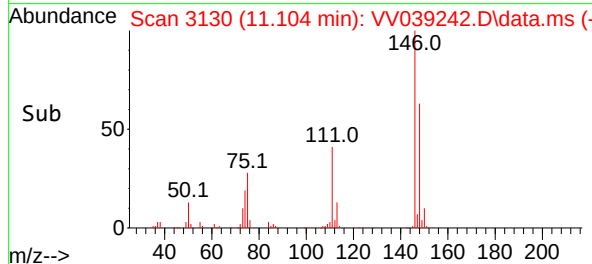
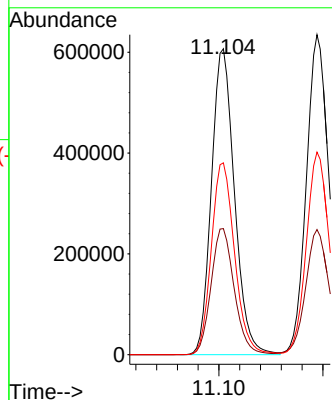
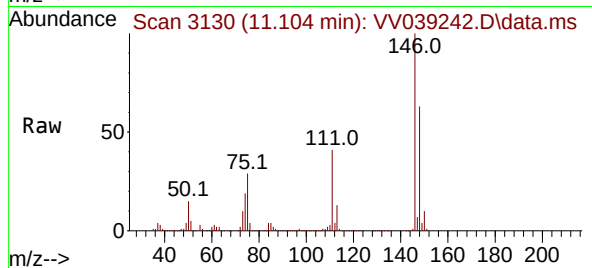
Tgt Ion:146 Resp: 934365

Ion Ratio Lower Upper

146 100

111 41.5 20.9 62.8

148 63.4 31.8 95.3



#88

1,4-Dichlorobenzene

Concen: 50.185 ug/l

RT: 11.194 min Scan# 3158

Delta R.T. -0.000 min

Lab File: VV039242.D

Acq: 03 Oct 2025 08:53

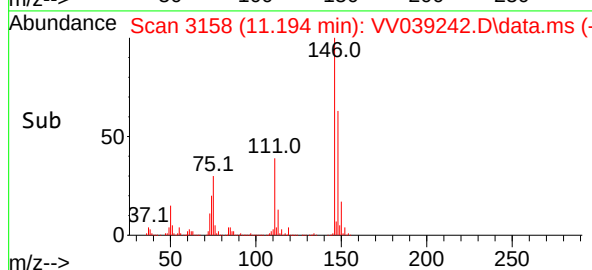
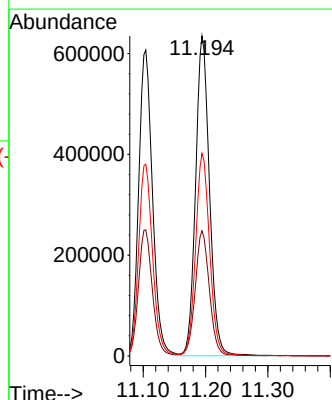
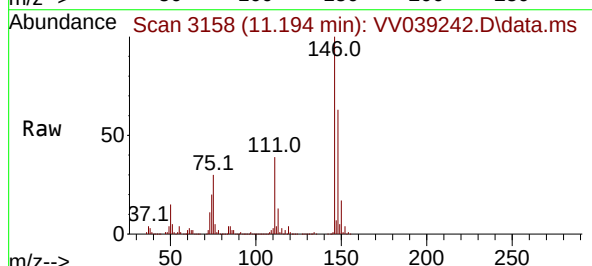
Tgt Ion:146 Resp: 980583

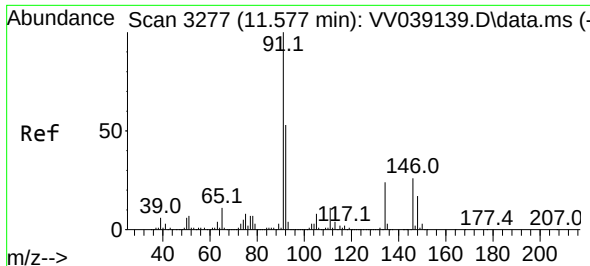
Ion Ratio Lower Upper

146 100

111 40.1 20.3 60.8

148 63.8 31.4 94.2





#89

n-Butylbenzene

Concen: 52.593 ug/l

RT: 11.577 min Scan# 31

Delta R.T. -0.000 min

Lab File: VV039242.D

Acq: 03 Oct 2025 08:53

Instrument :

MSVOA_V

ClientSampleId :

VSTDCCC050

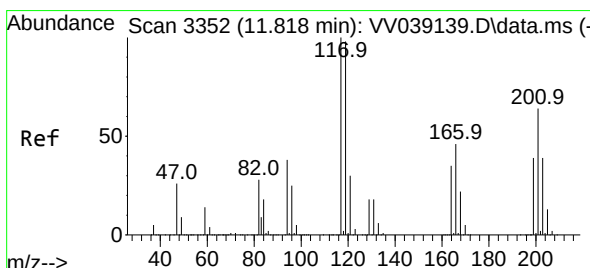
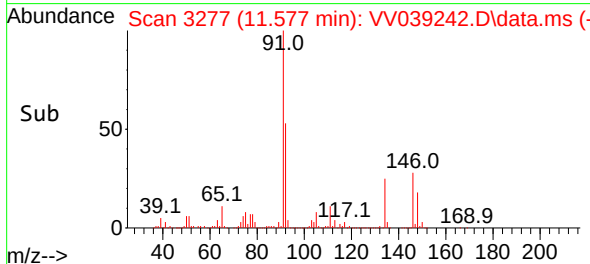
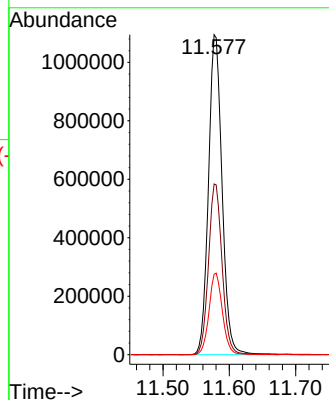
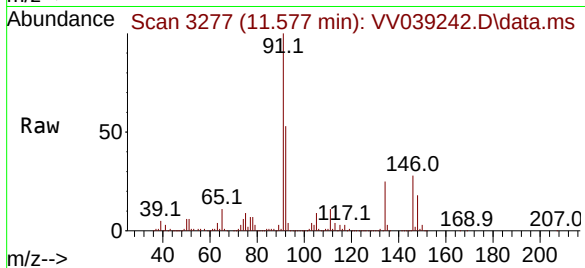
Tgt Ion: 91 Resp: 1558810

Ion Ratio Lower Upper

91 100

92 53.4 26.6 79.8

134 25.2 12.1 36.3



#90

Hexachloroethane

Concen: 44.374 ug/l

RT: 11.818 min Scan# 3352

Delta R.T. 0.000 min

Lab File: VV039242.D

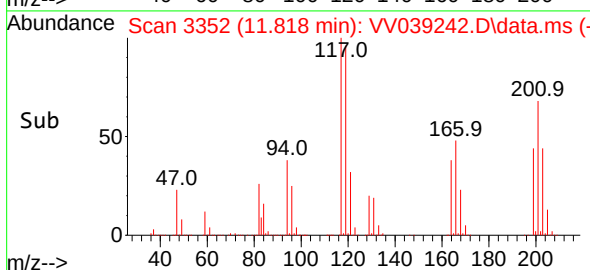
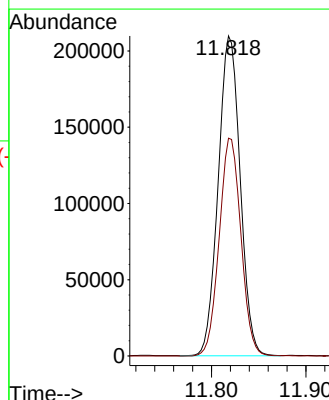
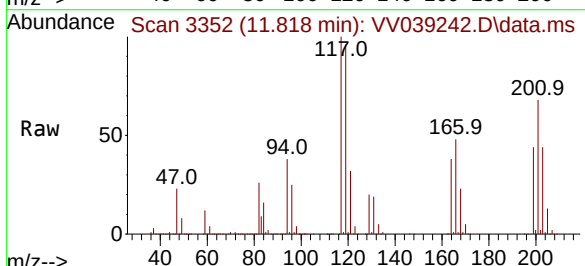
Acq: 03 Oct 2025 08:53

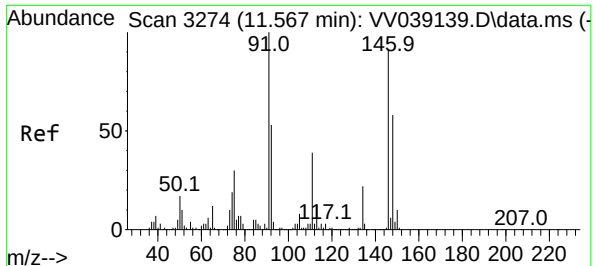
Tgt Ion: 117 Resp: 339116

Ion Ratio Lower Upper

117 100

201 67.1 32.3 96.8

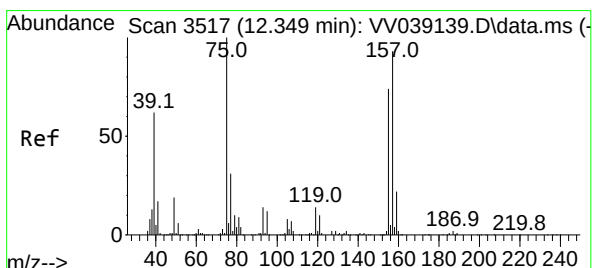
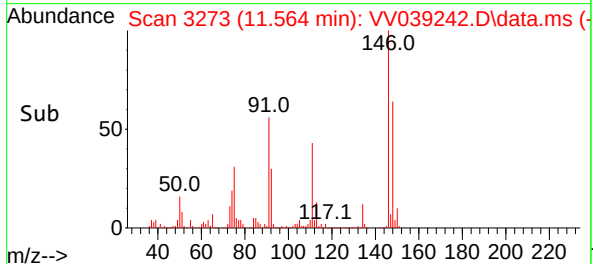
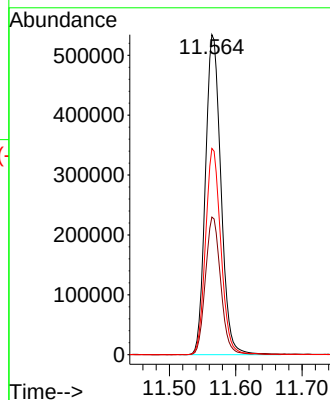
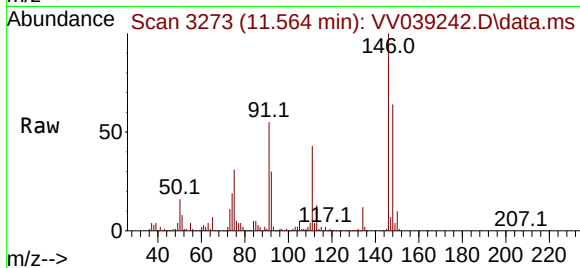




#91
1,2-Dichlorobenzene
Concen: 52.011 ug/l
RT: 11.564 min Scan# 311
Delta R.T. -0.003 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

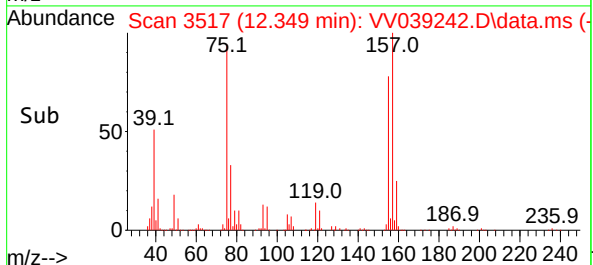
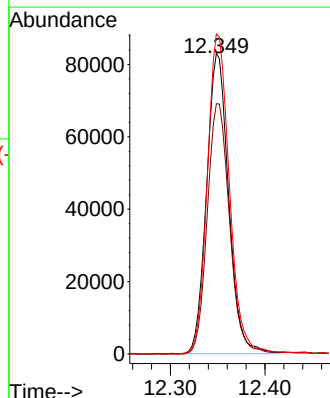
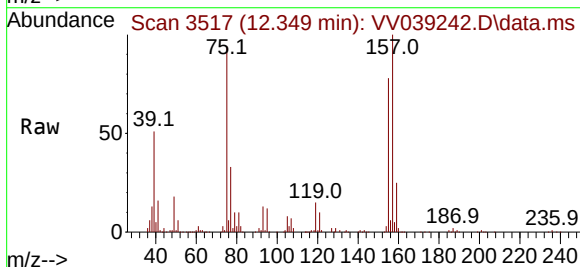
Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

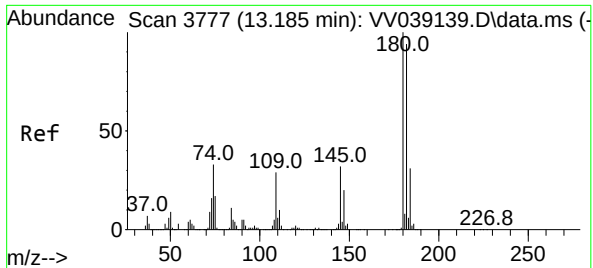
Tgt Ion:146 Resp: 865428
Ion Ratio Lower Upper
146 100
111 42.4 21.5 64.5
148 64.0 31.9 95.7



#92
1,2-Dibromo-3-Chloropropane
Concen: 50.268 ug/l
RT: 12.349 min Scan# 3517
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Tgt Ion: 75 Resp: 134431
Ion Ratio Lower Upper
75 100
155 84.0 38.6 115.8
157 107.1 49.5 148.3





#93

1,2,4-Trichlorobenzene

Concen: 53.672 ug/l

RT: 13.185 min Scan# 31

Delta R.T. -0.000 min

Lab File: VV039242.D

Acq: 03 Oct 2025 08:53

Instrument :

MSVOA_V

ClientSampleId :

VSTDCCC050

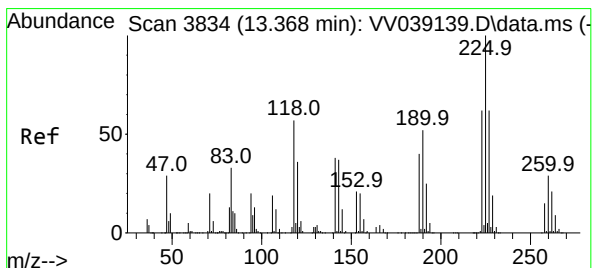
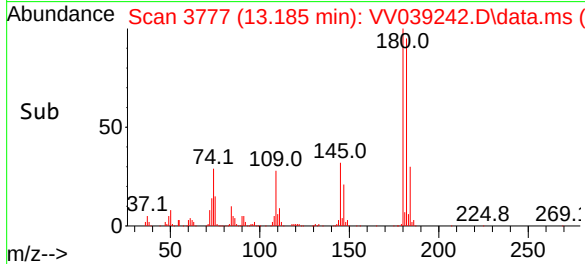
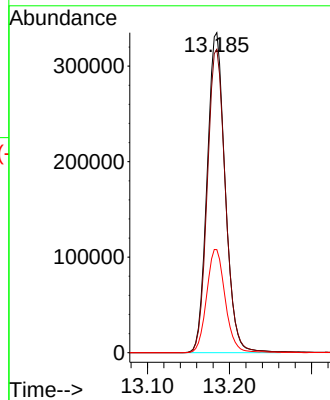
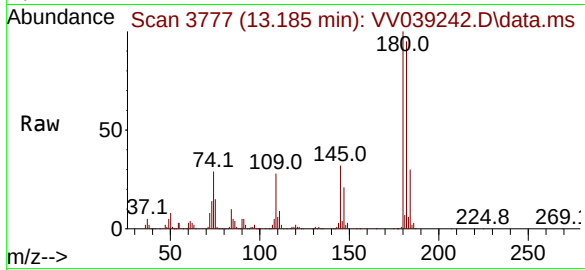
Tgt Ion:180 Resp: 511938

Ion Ratio Lower Upper

180 100

182 96.0 47.1 141.4

145 33.3 16.3 48.8



#94

Hexachlorobutadiene

Concen: 44.258 ug/l

RT: 13.368 min Scan# 3834

Delta R.T. -0.000 min

Lab File: VV039242.D

Acq: 03 Oct 2025 08:53

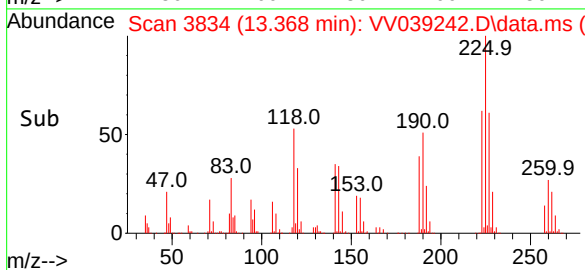
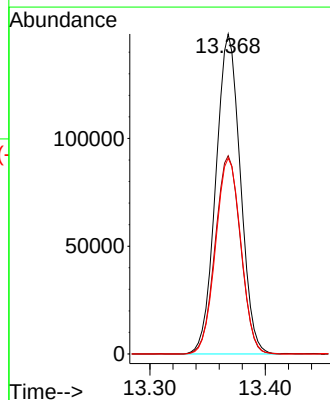
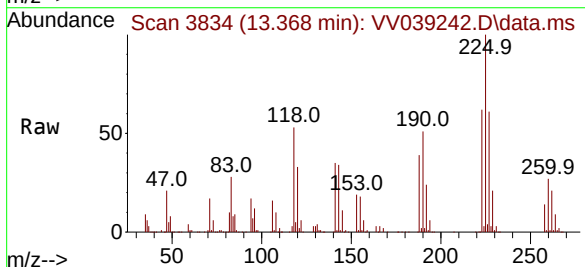
Tgt Ion:225 Resp: 219349

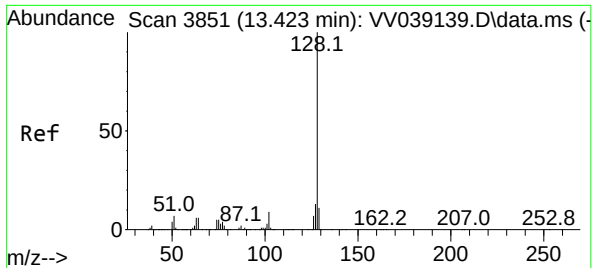
Ion Ratio Lower Upper

225 100

223 63.9 31.6 94.7

227 63.0 31.8 95.4

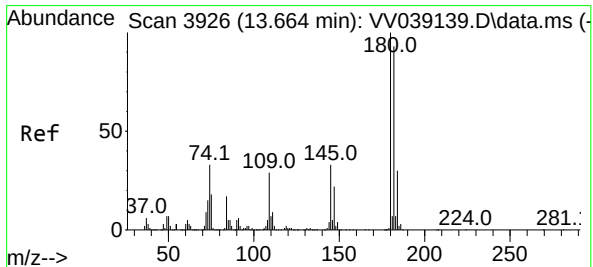
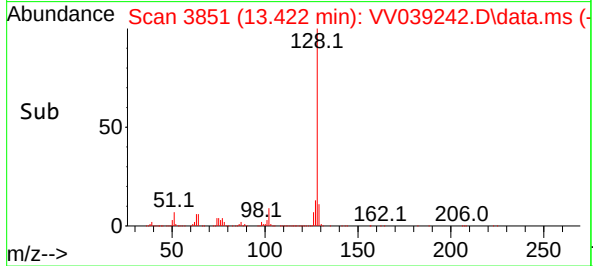
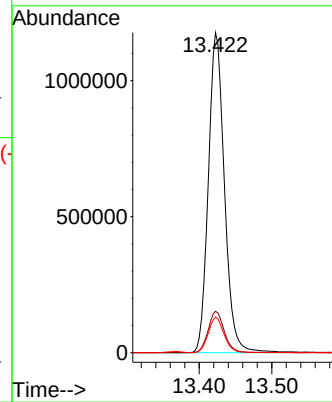
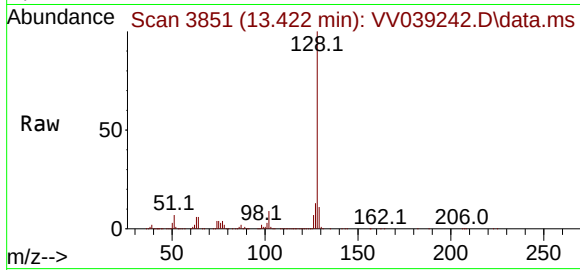




#95
Naphthalene
Concen: 58.802 ug/l
RT: 13.422 min Scan# 3851
Delta R.T. -0.001 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

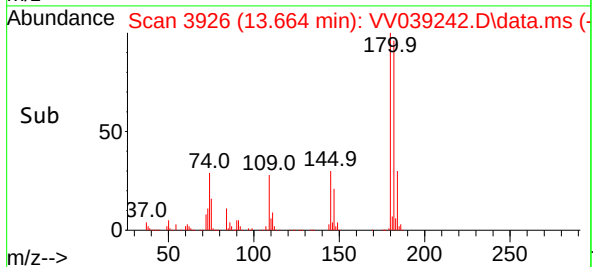
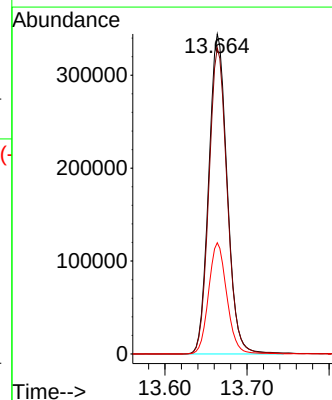
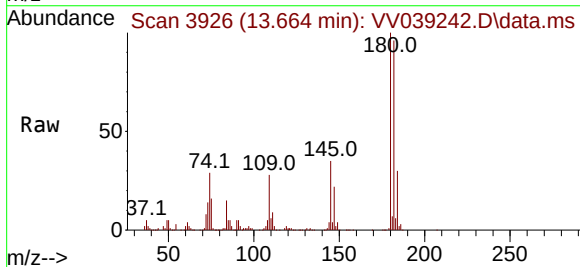
Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion:128 Resp: 1812807
Ion Ratio Lower Upper
128 100
127 12.9 10.3 15.5
129 10.8 8.6 13.0



#96
1,2,3-Trichlorobenzene
Concen: 55.024 ug/l
RT: 13.664 min Scan# 3926
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Tgt Ion:180 Resp: 536779
Ion Ratio Lower Upper
180 100
182 95.4 46.9 140.8
145 34.4 17.0 51.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV100325\
Data File : VV039242.D
Acq On : 03 Oct 2025 08:53
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_V
LabSampleId :
VSTDCCC050

Quant Time: Oct 08 07:59:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	1.000	1.000	0.0	90	0.00
2 T	Dichlorodifluoromethane	0.791	0.678	14.3	82	0.00
3 P	Chloromethane	0.850	0.705	17.1	82	0.00
4 C	Vinyl Chloride	0.910	0.797	12.4#	85	0.00
5 T	Bromomethane	0.573	0.524	8.6	92	0.00
6 T	Chloroethane	0.631	0.533	15.5	90	0.00
7 T	Trichlorofluoromethane	1.317	1.296	1.6	97	0.00
8 T	Diethyl Ether	0.489	0.475	2.9	95	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.784	0.780	0.5	100	0.00
10 T	Methyl Iodide	0.746	0.854	-14.5	97	0.00
11 T	Tert butyl alcohol	0.153	0.135	11.8	88	0.00
12 CM	1,1-Dichloroethene	0.754	0.737	2.3#	98	0.00
13 T	Acrolein	0.027	0.017	37.0#	57	0.00
14 T	Allyl chloride	1.347	1.215	9.8	88	0.00
15 T	Acrylonitrile	0.490	0.450	8.2	93	0.00
16 T	Acetone	0.523	0.465	11.1	93	0.00
17 T	Carbon Disulfide	2.306	1.914	17.0	82	0.00
18 T	Methyl Acetate	1.072	1.143	-6.6	104	0.00
19 T	Methyl tert-butyl Ether	2.402	2.433	-1.3	98	0.00
20 T	Methylene Chloride	1.066	0.842	21.0#	97	0.00
21 T	trans-1,2-Dichloroethene	0.803	0.776	3.4	96	0.00
22 T	Diisopropyl ether	2.576	2.431	5.6	86	0.00
23 T	Vinyl Acetate	2.254	2.045	9.3	83	0.00
24 P	1,1-Dichloroethane	1.576	1.470	6.7	95	0.00
25 T	2-Butanone	0.579	0.545	5.9	83	0.00
26 T	2,2-Dichloropropane	1.397	1.223	12.5	88	0.00
27 T	cis-1,2-Dichloroethene	0.885	0.850	4.0	88	0.00
28 T	Bromochloromethane	0.696	0.695	0.1	92	0.00
29 T	Tetrahydrofuran	0.363	0.342	5.8	83	0.00
30 C	Chloroform	1.645	1.541	6.3#	93	0.00
31 T	Cyclohexane	1.291	1.058	18.0	76	0.00
32 T	1,1,1-Trichloroethane	1.424	1.326	6.9	92	0.00
33 S	1,2-Dichloroethane-d4	0.724	0.604	16.6	84	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	80	0.00
35 S	Dibromofluoromethane	0.402	0.442	-10.0	94	0.00
36 T	1,1-Dichloropropene	0.608	0.665	-9.4	86	0.00
37 T	Ethyl Acetate	0.737	0.722	2.0	81	0.00
38 T	Carbon Tetrachloride	0.743	0.816	-9.8	93	0.00
39 T	Methylcyclohexane	0.734	0.753	-2.6	73	0.00
40 TM	Benzene	1.979	2.157	-9.0	87	0.00
41 T	Methacrylonitrile	0.273	0.335	-22.7#	81	0.00
42 TM	1,2-Dichloroethane	0.693	0.737	-6.3	89	0.00
43 T	Isopropyl Acetate	1.005	1.092	-8.7	82	0.00
44 TM	Trichloroethene	0.457	0.530	-16.0	92	0.00
45 C	1,2-Dichloropropane	0.492	0.557	-13.2#	89	0.00
46 T	Dibromomethane	0.376	0.419	-11.4	91	0.00
47 T	Bromodichloromethane	0.778	0.870	-11.8	93	0.00
48 T	Methyl methacrylate	0.456	0.501	-9.9	80	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV100325\
Data File : VV039242.D
Acq On : 03 Oct 2025 08:53
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_V
LabSampleId :
VSTDCCC050

Quant Time: Oct 08 07:59:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	0.007	0.008	-14.3	81	0.00
50 S	Toluene-d8	1.181	1.194	-1.1	84	0.00
51 T	4-Methyl-2-Pentanone	0.661	0.770	-16.5	84	0.00
52 CM	Toluene	1.147	1.390	-21.2#	91	0.00
53 T	t-1,3-Dichloropropene	0.678	0.811	-19.6	89	0.00
54 T	cis-1,3-Dichloropropene	0.749	0.891	-19.0	88	0.00
55 T	1,1,2-Trichloroethane	0.514	0.596	-16.0	97	0.00
56 T	Ethyl methacrylate	0.611	0.775	-26.8#	87	0.00
57 T	1,3-Dichloropropane	0.812	0.941	-15.9	92	0.00
58 T	2-Chloroethyl Vinyl ether	0.267	0.332	-24.3#	75	0.00
59 T	2-Hexanone	0.463	0.579	-25.1#	85	0.00
60 T	Dibromochloromethane	0.586	0.698	-19.1	99	0.00
61 T	1,2-Dibromoethane	0.526	0.621	-18.1	94	0.00
62 S	4-Bromofluorobenzene	0.486	0.586	-20.6#	93	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	83	0.00
64 T	Tetrachloroethene	0.419	0.472	-12.6	95	0.00
65 PM	Chlorobenzene	1.393	1.546	-11.0	93	0.00
66 T	1,1,1,2-Tetrachloroethane	0.503	0.582	-15.7	99	0.00
67 C	Ethyl Benzene	2.108	2.531	-20.1#	88	0.00
68 T	m/p-Xylenes	0.814	1.051	-29.1#	92	0.00
69 T	o-Xylene	0.720	0.926	-28.6#	91	0.00
70 T	Styrene	1.263	1.770	-40.1#	95	0.00
71 P	Bromoform	0.393	0.490	-24.7#	103	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	91	0.00
73 T	Isopropylbenzene	3.627	3.916	-8.0	90	0.00
74 T	N-amyl acetate	1.447	1.547	-6.9	84	0.00
75 P	1,1,2,2-Tetrachloroethane	1.589	1.472	7.4	94	0.00
76 T	1,2,3-Trichloropropane	1.138	1.053	7.5	91	0.00
77 T	Bromobenzene	0.941	1.001	-6.4	98	0.00
78 T	n-propylbenzene	4.416	4.777	-8.2	88	0.00
79 T	2-Chlorotoluene	2.643	2.884	-9.1	92	0.00
80 T	1,3,5-Trimethylbenzene	3.014	3.407	-13.0	91	0.00
81 T	trans-1,4-Dichloro-2-butene	0.474	0.497	-4.9	91	0.00
82 T	4-Chlorotoluene	3.064	3.456	-12.8	94	0.00
83 T	tert-Butylbenzene	3.006	3.183	-5.9	89	0.00
84 T	1,2,4-Trimethylbenzene	2.926	3.422	-17.0	92	0.00
85 T	sec-Butylbenzene	3.987	4.113	-3.2	85	0.00
86 T	p-Isopropyltoluene	3.318	3.534	-6.5	87	0.00
87 T	1,3-Dichlorobenzene	1.904	1.998	-4.9	97	0.00
88 T	1,4-Dichlorobenzene	2.089	2.097	-0.4	98	0.00
89 T	n-Butylbenzene	3.169	3.333	-5.2	84	0.00
90 T	Hexachloroethane	0.817	0.725	11.3	90	0.00
91 T	1,2-Dichlorobenzene	1.779	1.851	-4.0	96	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.330	0.287	13.0	91	0.00
93 T	1,2,4-Trichlorobenzene	1.020	1.095	-7.4	92	0.00
94 T	Hexachlorobutadiene	0.530	0.469	11.5	89	0.00
95 T	Naphthalene	3.296	3.877	-17.6	92	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV100325\
Data File : VV039242.D
Acq On : 03 Oct 2025 08:53
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_V
LabSampleId :
VSTDCCC050

Quant Time: Oct 08 07:59:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	1.043	1.148	-10.1	94	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV100325\
Data File : VV039242.D
Acq On : 03 Oct 2025 08:53
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_V
LabSampleId :
VSTDCCC050

Quant Time: Oct 08 07:59:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	50.000	50.000	0.0	90	0.00
2 T	Dichlorodifluoromethane	50.000	42.846	14.3	82	0.00
3 P	Chloromethane	50.000	41.489	17.0	82	0.00
4 C	Vinyl Chloride	50.000	43.819	12.4#	85	0.00
5 T	Bromomethane	50.000	45.671	8.7	92	0.00
6 T	Chloroethane	50.000	49.756	0.5	90	0.00
7 T	Trichlorofluoromethane	50.000	49.210	1.6	97	0.00
8 T	Diethyl Ether	50.000	48.601	2.8	95	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	49.765	0.5	100	0.00
10 T	Methyl Iodide	50.000	57.201	-14.4	97	0.00
11 T	Tert butyl alcohol	250.000	220.472	11.8	88	0.00
12 CM	1,1-Dichloroethene	50.000	48.853	2.3#	98	0.00
13 T	Acrolein	250.000	158.748	36.5#	57	0.00
14 T	Allyl chloride	50.000	45.110	9.8	88	0.00
15 T	Acrylonitrile	250.000	229.692	8.1	93	0.00
16 T	Acetone	250.000	261.128	-4.5	93	0.00
17 T	Carbon Disulfide	50.000	41.510	17.0	82	0.00
18 T	Methyl Acetate	50.000	53.306	-6.6	104	0.00
19 T	Methyl tert-butyl Ether	50.000	50.644	-1.3	98	0.00
20 T	Methylene Chloride	50.000	54.174	-8.3	97	0.00
21 T	trans-1,2-Dichloroethene	50.000	48.346	3.3	96	0.00
22 T	Diisopropyl ether	50.000	47.173	5.7	86	0.00
23 T	Vinyl Acetate	250.000	226.848	9.3	83	0.00
24 P	1,1-Dichloroethane	50.000	46.651	6.7	95	0.00
25 T	2-Butanone	250.000	235.085	6.0	83	0.00
26 T	2,2-Dichloropropane	50.000	43.784	12.4	88	0.00
27 T	cis-1,2-Dichloroethene	50.000	48.015	4.0	88	0.00
28 T	Bromochloromethane	50.000	49.928	0.1	92	0.00
29 T	Tetrahydrofuran	250.000	235.626	5.7	83	0.00
30 C	Chloroform	50.000	46.845	6.3#	93	0.00
31 T	Cyclohexane	50.000	40.990	18.0	76	0.00
32 T	1,1,1-Trichloroethane	50.000	46.532	6.9	92	0.00
33 S	1,2-Dichloroethane-d4	50.000	41.751	16.5	84	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	80	0.00
35 S	Dibromofluoromethane	50.000	55.012	-10.0	94	0.00
36 T	1,1-Dichloropropene	50.000	54.703	-9.4	86	0.00
37 T	Ethyl Acetate	50.000	48.933	2.1	81	0.00
38 T	Carbon Tetrachloride	50.000	54.914	-9.8	93	0.00
39 T	Methylcyclohexane	50.000	51.283	-2.6	73	0.00
40 TM	Benzene	50.000	54.504	-9.0	87	0.00
41 T	Methacrylonitrile	50.000	50.227	-0.5	81	0.00
42 TM	1,2-Dichloroethane	50.000	53.160	-6.3	89	0.00
43 T	Isopropyl Acetate	50.000	54.281	-8.6	82	0.00
44 TM	Trichloroethene	50.000	57.993	-16.0	92	0.00
45 C	1,2-Dichloropropane	50.000	56.590	-13.2#	89	0.00
46 T	Dibromomethane	50.000	55.683	-11.4	91	0.00
47 T	Bromodichloromethane	50.000	55.859	-11.7	93	0.00
48 T	Methyl methacrylate	50.000	55.003	-10.0	80	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV100325\
Data File : VV039242.D
Acq On : 03 Oct 2025 08:53
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_V
LabSampleId :
VSTDCCC050

Quant Time: Oct 08 07:59:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	1000.000	1030.978	-3.1	81	0.00
50 S	Toluene-d8	50.000	50.551	-1.1	84	0.00
51 T	4-Methyl-2-Pentanone	250.000	290.997	-16.4	84	0.00
52 CM	Toluene	50.000	60.564	-21.1#	91	0.00
53 T	t-1,3-Dichloropropene	50.000	59.756	-19.5	89	0.00
54 T	cis-1,3-Dichloropropene	50.000	59.500	-19.0	88	0.00
55 T	1,1,2-Trichloroethane	50.000	57.949	-15.9	97	0.00
56 T	Ethyl methacrylate	50.000	63.413	-26.8#	87	0.00
57 T	1,3-Dichloropropane	50.000	57.955	-15.9	92	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	240.718	3.7	75	0.00
59 T	2-Hexanone	250.000	270.676	-8.3	85	0.00
60 T	Dibromochloromethane	50.000	59.550	-19.1	99	0.00
61 T	1,2-Dibromoethane	50.000	59.030	-18.1	94	0.00
62 S	4-Bromofluorobenzene	50.000	60.326	-20.7#	93	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	83	0.00
64 T	Tetrachloroethene	50.000	56.385	-12.8	95	0.00
65 PM	Chlorobenzene	50.000	55.521	-11.0	93	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	57.876	-15.8	99	0.00
67 C	Ethyl Benzene	50.000	60.034	-20.1#	88	0.00
68 T	m/p-Xylenes	100.000	129.107	-29.1#	92	0.00
69 T	o-Xylene	50.000	64.270	-28.5#	91	0.00
70 T	Styrene	50.000	57.814	-15.6	95	0.00
71 P	Bromoform	50.000	62.277	-24.6#	103	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	91	0.00
73 T	Isopropylbenzene	50.000	53.992	-8.0	90	0.00
74 T	N-ethyl acetate	50.000	53.488	-7.0	84	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	46.331	7.3	94	0.00
76 T	1,2,3-Trichloropropane	50.000	46.268	7.5	91	0.00
77 T	Bromobenzene	50.000	53.208	-6.4	98	0.00
78 T	n-propylbenzene	50.000	54.089	-8.2	88	0.00
79 T	2-Chlorotoluene	50.000	54.565	-9.1	92	0.00
80 T	1,3,5-Trimethylbenzene	50.000	56.508	-13.0	91	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	52.378	-4.8	91	0.00
82 T	4-Chlorotoluene	50.000	56.397	-12.8	94	0.00
83 T	tert-Butylbenzene	50.000	52.950	-5.9	89	0.00
84 T	1,2,4-Trimethylbenzene	50.000	58.464	-16.9	92	0.00
85 T	sec-Butylbenzene	50.000	51.585	-3.2	85	0.00
86 T	p-Isopropyltoluene	50.000	53.245	-6.5	87	0.00
87 T	1,3-Dichlorobenzene	50.000	52.464	-4.9	97	0.00
88 T	1,4-Dichlorobenzene	50.000	50.185	-0.4	98	0.00
89 T	n-Butylbenzene	50.000	52.593	-5.2	84	0.00
90 T	Hexachloroethane	50.000	44.374	11.3	90	0.00
91 T	1,2-Dichlorobenzene	50.000	52.011	-4.0	96	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	50.268	-0.5	91	0.00
93 T	1,2,4-Trichlorobenzene	50.000	53.672	-7.3	92	0.00
94 T	Hexachlorobutadiene	50.000	44.258	11.5	89	0.00
95 T	Naphthalene	50.000	58.802	-17.6	92	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV100325\
Data File : VV039242.D
Acq On : 03 Oct 2025 08:53
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_V
LabSampleId :
VSTDCCC050

Quant Time: Oct 08 07:59:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	55.024	-10.0	94	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6



QC SAMPLE DATA

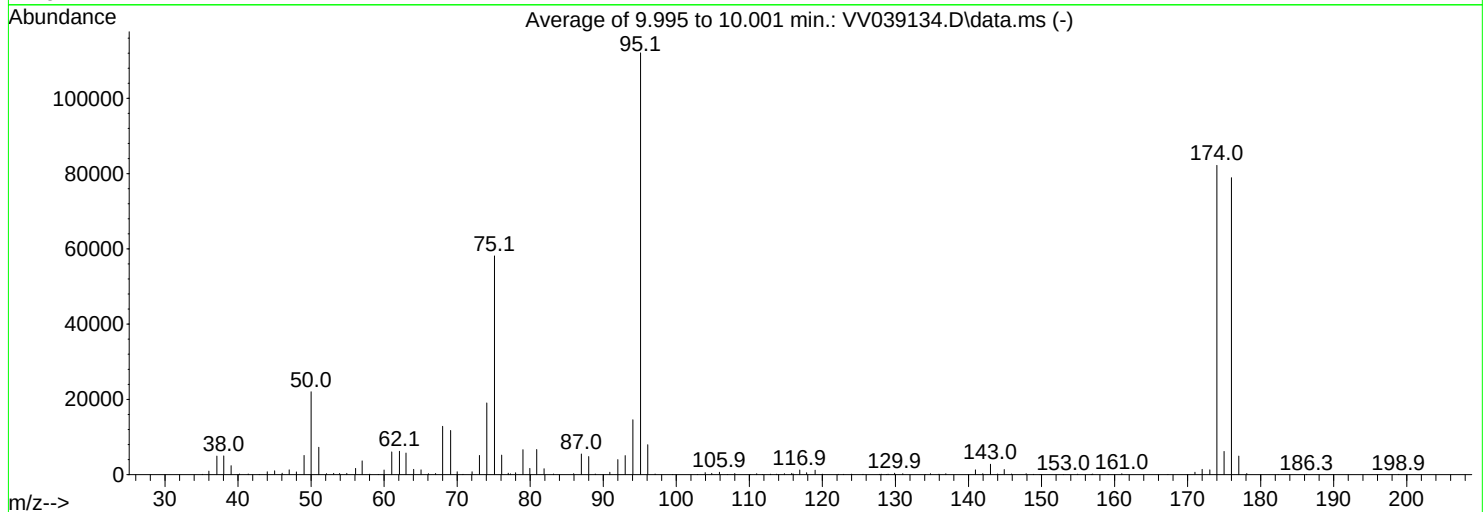
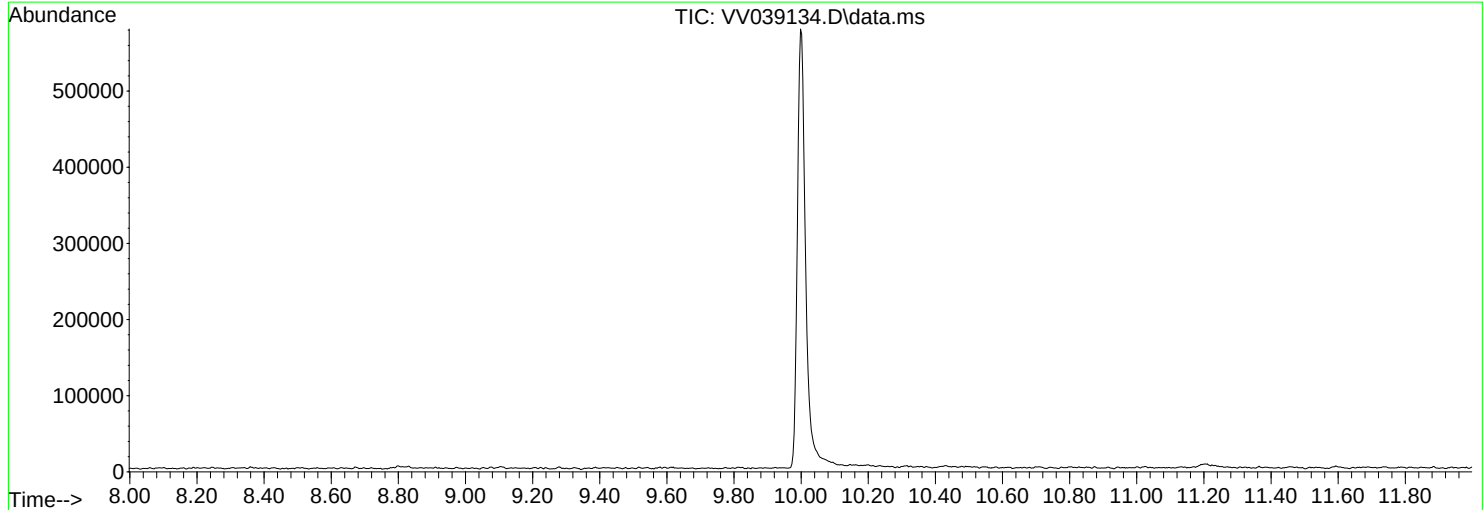
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039134.D
Acq On : 22 Sep 2025 10:15
Operator : SY/MD
Sample : BFB
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Title : SW846 8260
Last Update : Wed Sep 24 08:08:08 2025



AutoFind: Scans 2785, 2786, 2787; Background Corrected with Scan 2774

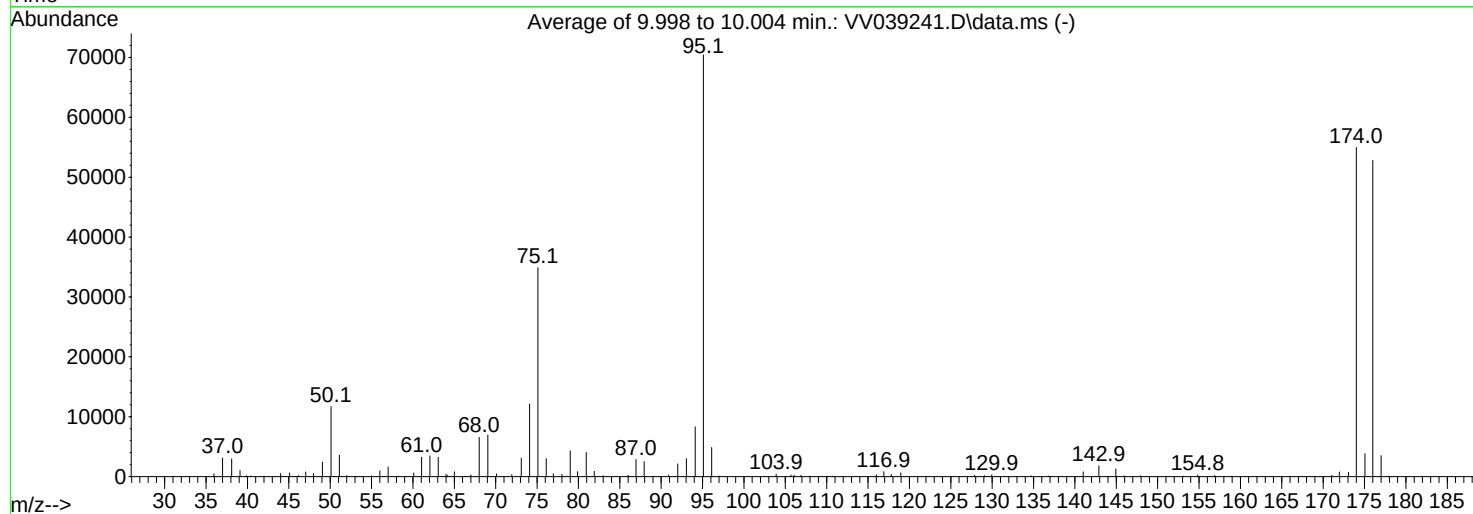
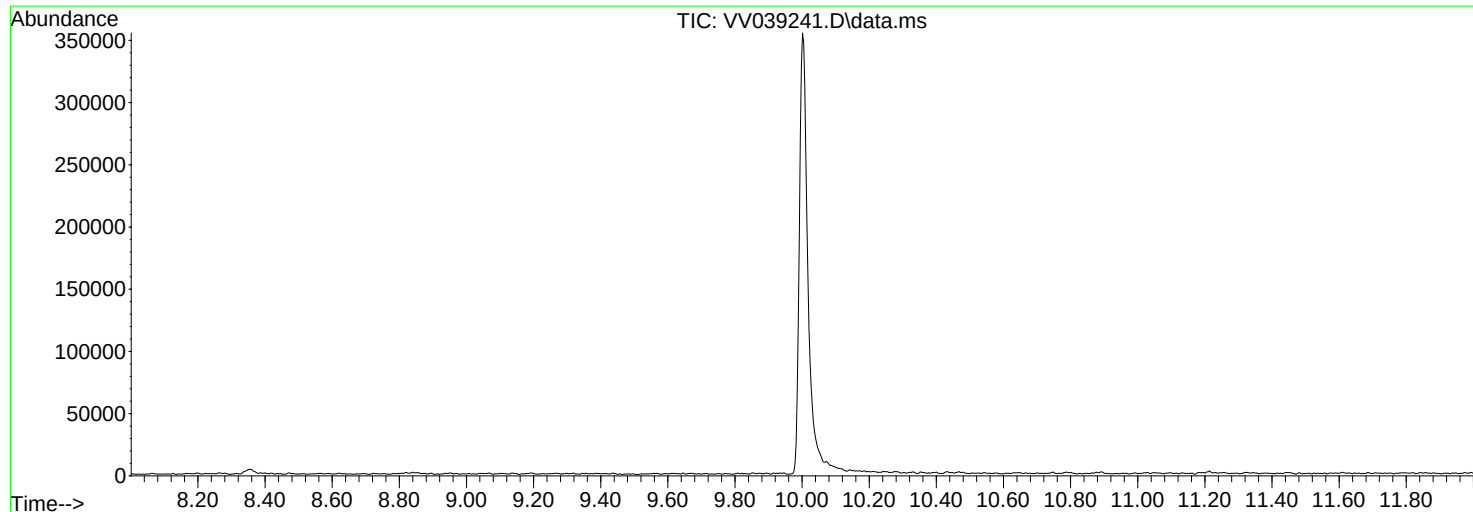
Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	19.6	22014	PASS
75	95	30	60	51.9	58147	PASS
95	95	100	100	100.0	112096	PASS
96	95	5	9	7.1	7955	PASS
173	174	0.00	2	1.6	1275	PASS
174	95	50	100	73.3	82200	PASS
175	174	5	9	7.5	6152	PASS
176	174	95	101	96.0	78917	PASS
177	176	5	9	6.3	4933	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV100325\
Data File : VV039241.D
Acq On : 03 Oct 2025 08:26
Operator : SY/MD
Sample : BFB
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Title : SW846 8260
Last Update : Wed Sep 24 08:08:08 2025



AutoFind: Scans 2786, 2787, 2788; Background Corrected with Scan 2775

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	16.6	11702	PASS
75	95	30	60	49.5	34896	PASS
95	95	100	100	100.0	70432	PASS
96	95	5	9	6.9	4879	PASS
173	174	0.00	2	1.3	733	PASS
174	95	50	100	78.0	54968	PASS
175	174	5	9	7.0	3851	PASS
176	174	95	101	96.0	52784	PASS
177	176	5	9	6.6	3489	PASS

Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.		Date Collected:	
Project:	Ansonia Landfill 2025		Date Received:	
Client Sample ID:	VV1003WBL01		SDG No.:	Q3254
Lab Sample ID:	VV1003WBL01		Matrix:	Water
Analytical Method:	8260D		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	DB-624UI	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039244.D	1	10/03/25 11:26	VV100325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	1.00	U	0.26	1.00	ug/L
75-00-3	Chloroethane	1.00	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.33	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.23	1.00	ug/L
107-13-1	Acrylonitrile	5.00	U	0.83	5.00	ug/L
67-64-1	Acetone	5.00	U	1.50	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.21	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.28	1.00	ug/L
108-05-4	Vinyl Acetate	5.00	U	0.66	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.19	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.22	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.20	1.00	ug/L
71-43-2	Benzene	1.00	U	0.15	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.20	1.00	ug/L
74-95-3	Dibromomethane	1.00	U	0.25	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.68	5.00	ug/L
108-88-3	Toluene	1.00	U	0.14	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.16	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.15	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.12	1.00	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	1.00	U	0.19	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.13	1.00	ug/L

Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.		Date Collected:	
Project:	Ansonia Landfill 2025		Date Received:	
Client Sample ID:	VV1003WBL01		SDG No.:	Q3254
Lab Sample ID:	VV1003WBL01		Matrix:	Water
Analytical Method:	8260D		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	DB-624UI	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039244.D	1	10/03/25 11:26	VV100325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1330-20-7	Total Xylenes	3.00	U	0.36	3.00	ug/L
100-42-5	Styrene	1.00	U	0.15	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.19	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.26	1.00	ug/L
96-18-4	1,2,3-Trichloropropane	1.00	U	0.35	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.53	1.00	ug/L
74-88-4	Methyl Iodide	5.00	U	0.83	5.00	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	5.00	U	0.84	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.7		74 - 125	103%	SPK: 50
1868-53-7	Dibromofluoromethane	52.5		75 - 124	105%	SPK: 50
2037-26-5	Toluene-d8	44.6		86 - 113	89%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.2		77 - 121	90%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	502000	4.6			
540-36-3	1,4-Difluorobenzene	854000	5.532			
3114-55-4	Chlorobenzene-d5	854000	8.776			
3855-82-1	1,4-Dichlorobenzene-d4	433000	11.172			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV100325\
Data File : VV039244.D
Acq On : 03 Oct 2025 11:26
Operator : SY/MD
Sample : VV1003WBL01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBL01

Quant Time: Oct 04 01:08:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.600	168	501875	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.532	114	854024	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	854306	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	433083	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.941	65	375765	51.732	ug/l	0.00
Spiked Amount	50.000	Range	81 - 118	Recovery	=	103.460%
35) Dibromofluoromethane	4.503	113	360439	52.499	ug/l	0.00
Spiked Amount	50.000	Range	80 - 119	Recovery	=	105.000%
50) Toluene-d8	7.236	98	900252	44.645	ug/l	0.00
Spiked Amount	50.000	Range	89 - 112	Recovery	=	89.300%
62) 4-Bromofluorobenzene	10.001	95	374884	45.160	ug/l	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	=	90.320%

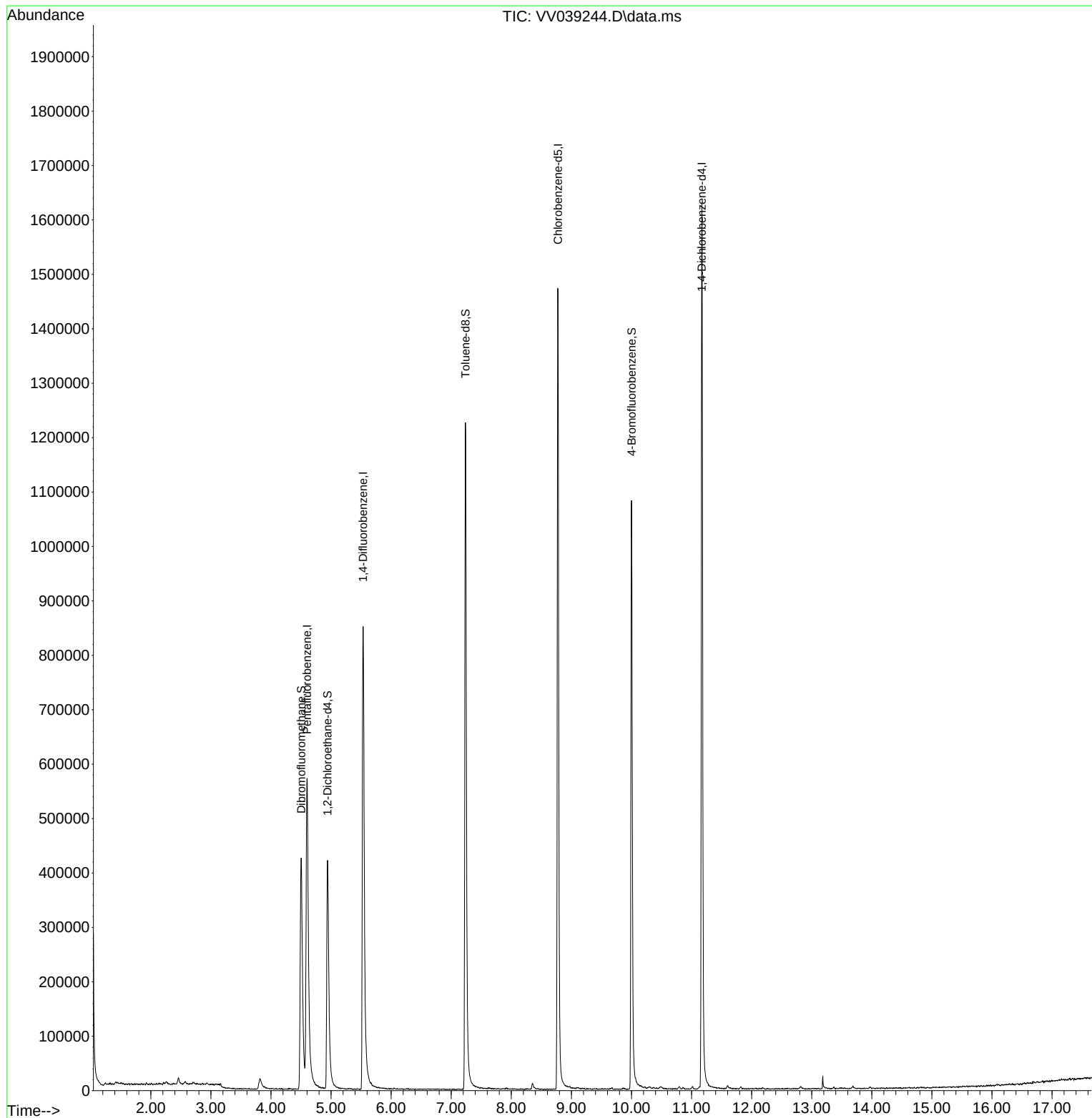
Target Compounds	Qvalue

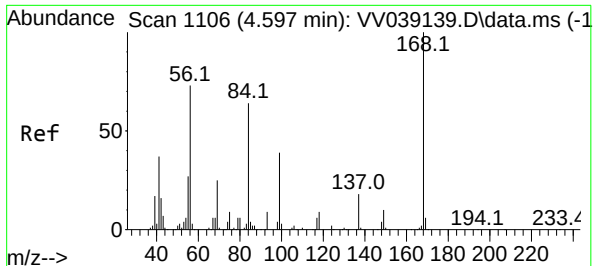
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV100325\
Data File : VV039244.D
Acq On : 03 Oct 2025 11:26
Operator : SY/MD
Sample : VV1003WBL01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBL01

Quant Time: Oct 04 01:08:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

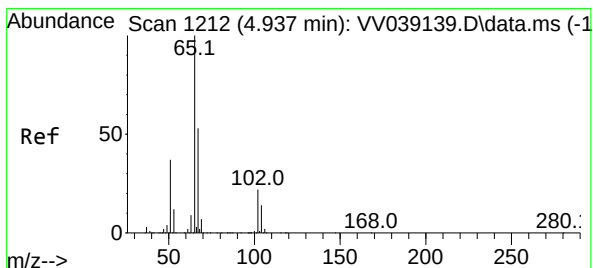
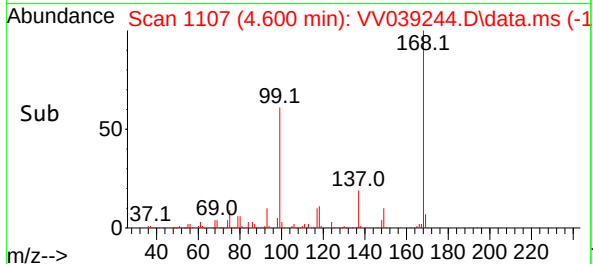
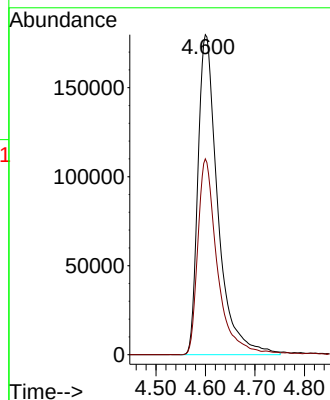
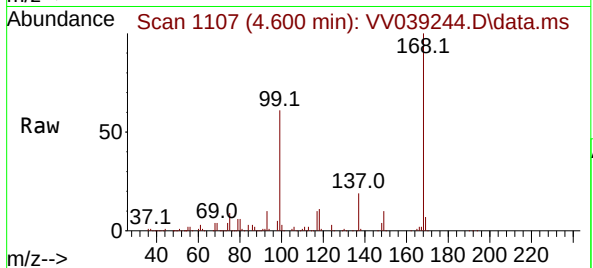




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 1106
Delta R.T. 0.003 min
Lab File: VV039244.D
Acq: 03 Oct 2025 11:26

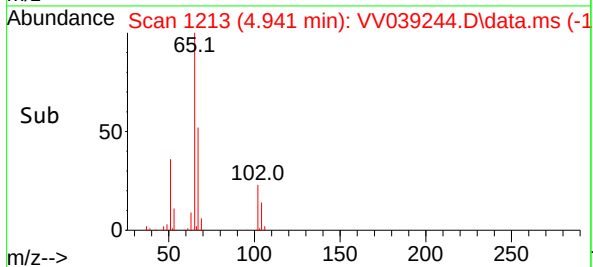
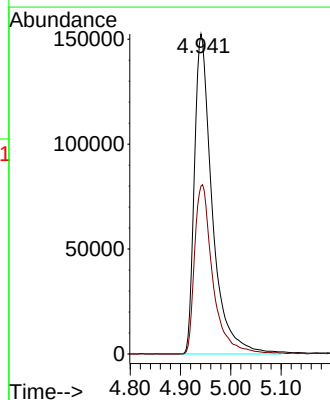
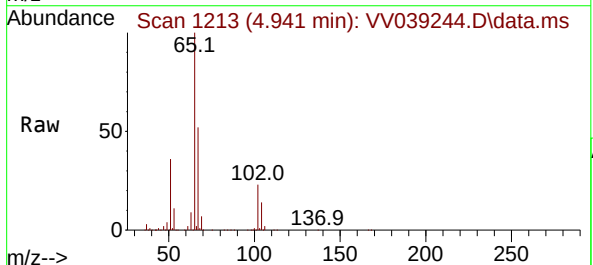
Instrument :
MSVOA_V
ClientSampleId :
VV1003WBL01

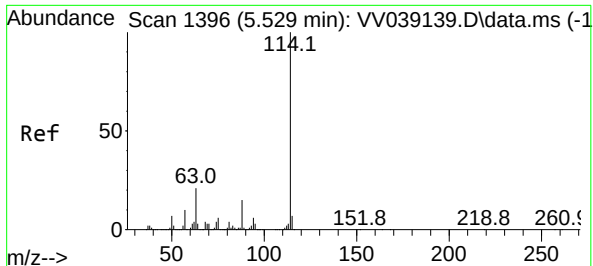
Tgt Ion:168 Resp: 501875
Ion Ratio Lower Upper
168 100
99 61.2 49.6 74.4



#33
1,2-Dichloroethane-d4
Concen: 51.732 ug/l
RT: 4.941 min Scan# 1213
Delta R.T. 0.003 min
Lab File: VV039244.D
Acq: 03 Oct 2025 11:26

Tgt Ion: 65 Resp: 375765
Ion Ratio Lower Upper
65 100
67 53.8 0.0 107.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.532 min Scan# 11

Delta R.T. 0.003 min

Lab File: VV039244.D

Acq: 03 Oct 2025 11:26

Instrument :

MSVOA_V

ClientSampleId :

VV1003WBL01

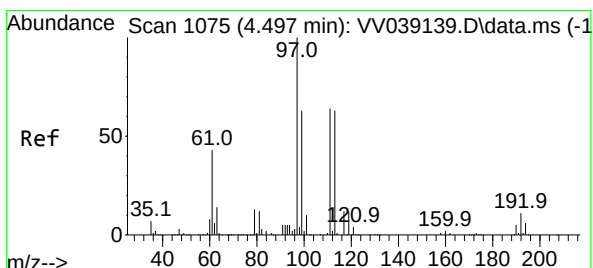
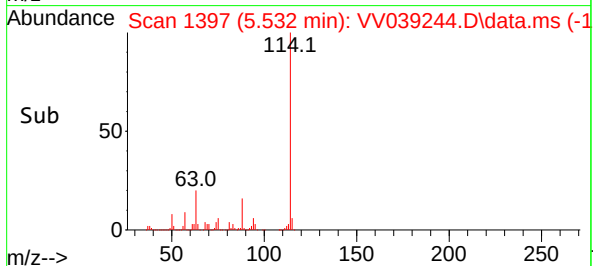
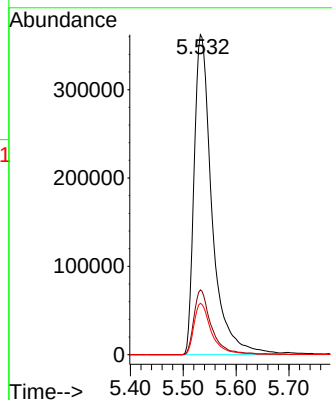
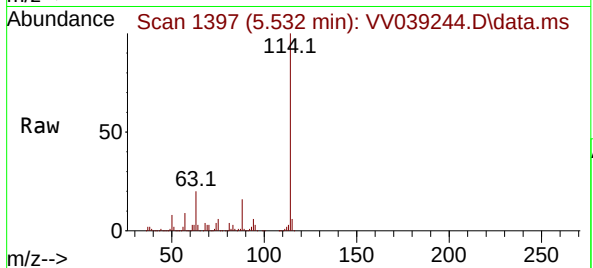
Tgt Ion:114 Resp: 854024

Ion Ratio Lower Upper

114 100

63 20.2 0.0 42.6

88 16.0 0.0 30.8



#35

Dibromofluoromethane

Concen: 52.499 ug/l

RT: 4.503 min Scan# 1077

Delta R.T. 0.006 min

Lab File: VV039244.D

Acq: 03 Oct 2025 11:26

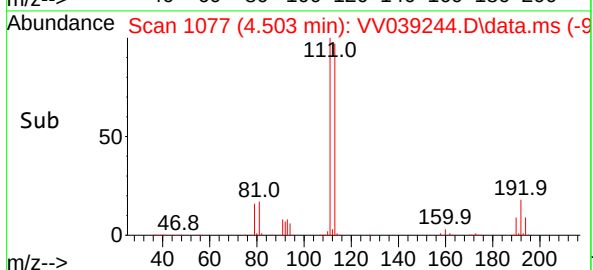
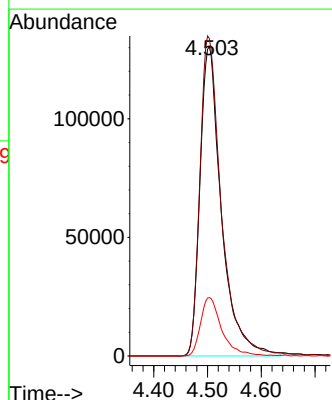
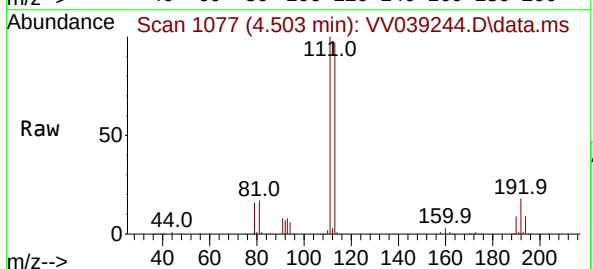
Tgt Ion:113 Resp: 360439

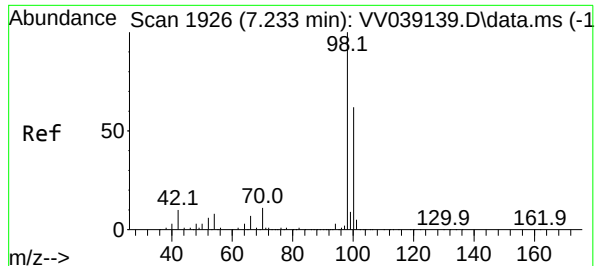
Ion Ratio Lower Upper

113 100

111 103.0 82.4 123.6

192 18.6 13.8 20.8





#50

Toluene-d8

Concen: 44.645 ug/l

RT: 7.236 min Scan# 1926

Delta R.T. 0.003 min

Lab File: VV039244.D

Acq: 03 Oct 2025 11:26

Instrument :

MSVOA_V

ClientSampleId :

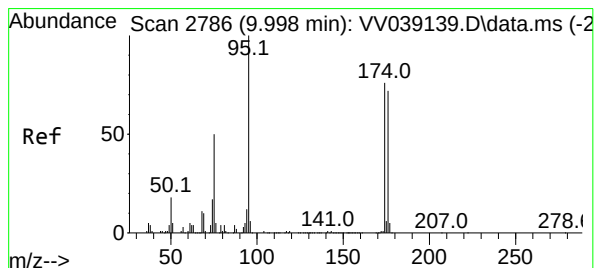
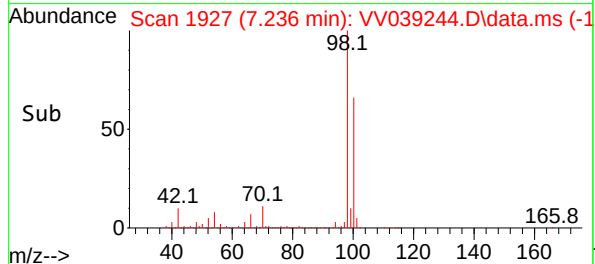
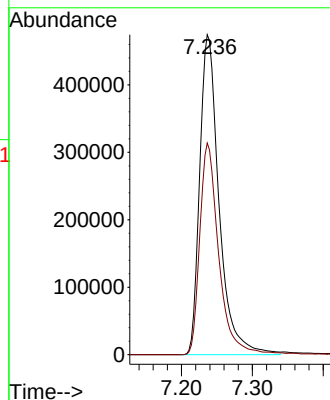
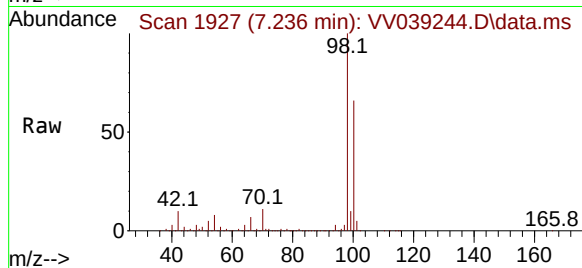
VV1003WBL01

Tgt Ion: 98 Resp: 900252

Ion Ratio Lower Upper

98 100

100 64.7 52.2 78.2



#62

4-Bromofluorobenzene

Concen: 45.160 ug/l

RT: 10.001 min Scan# 2787

Delta R.T. 0.003 min

Lab File: VV039244.D

Acq: 03 Oct 2025 11:26

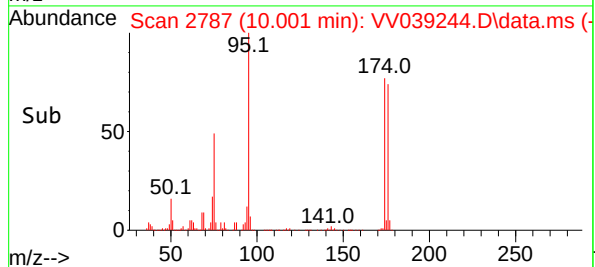
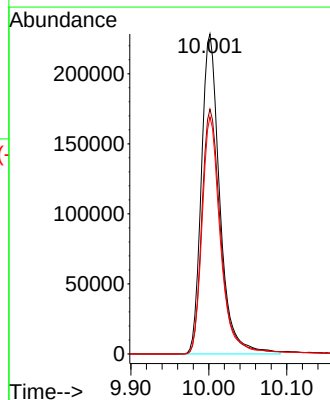
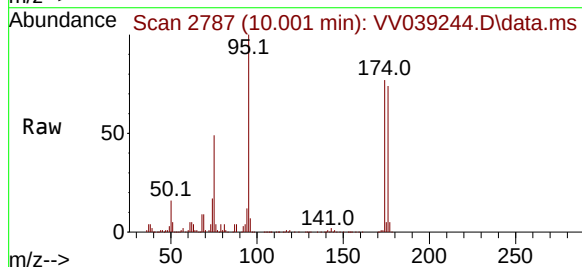
Tgt Ion: 95 Resp: 374884

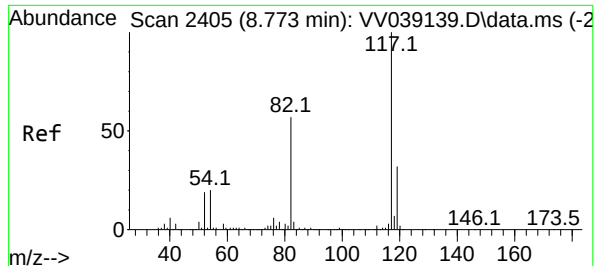
Ion Ratio Lower Upper

95 100

174 79.2 0.0 150.4

176 74.2 0.0 144.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 8.776 min Scan# 2405

Delta R.T. 0.003 min

Lab File: VV039244.D

Acq: 03 Oct 2025 11:26

Instrument :

MSVOA_V

ClientSampleId :

VV1003WBL01

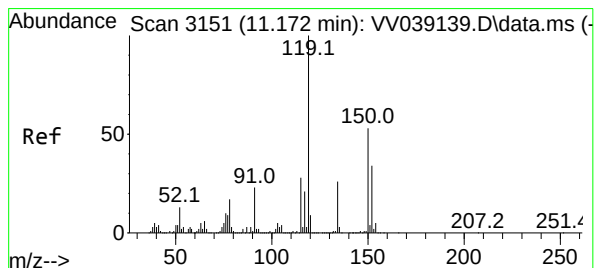
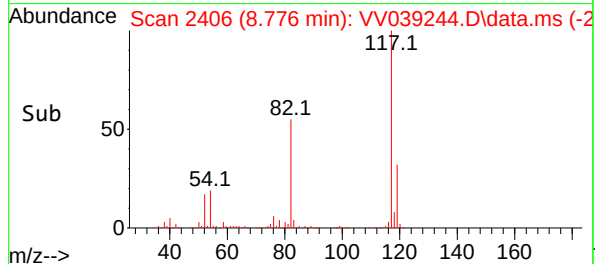
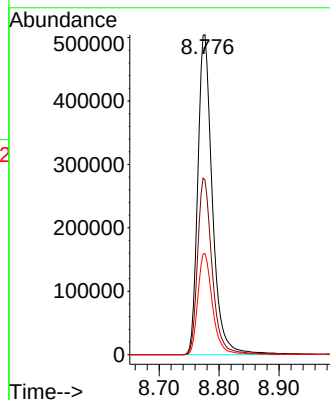
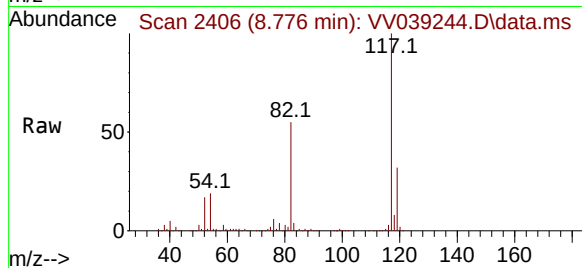
Tgt Ion:117 Resp: 854306

Ion Ratio Lower Upper

117 100

82 54.6 45.4 68.2

119 31.6 25.6 38.4



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.172 min Scan# 3151

Delta R.T. -0.000 min

Lab File: VV039244.D

Acq: 03 Oct 2025 11:26

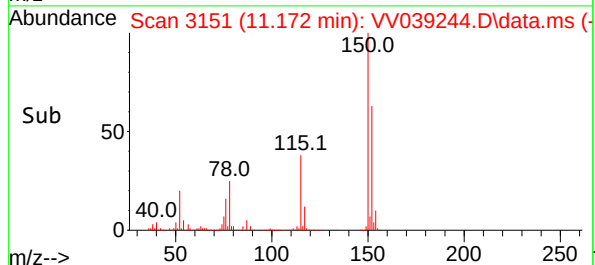
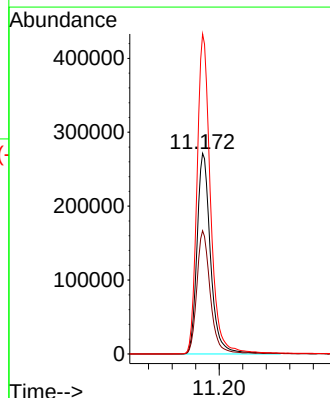
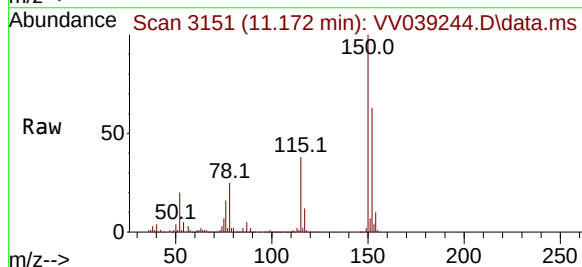
Tgt Ion:152 Resp: 433083

Ion Ratio Lower Upper

152 100

115 60.6 44.8 134.4

150 159.3 0.0 353.8



Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.		Date Collected:	
Project:	Ansonia Landfill 2025		Date Received:	
Client Sample ID:	VV1003WBS01		SDG No.:	Q3254
Lab Sample ID:	VV1003WBS01		Matrix:	Water
Analytical Method:	8260D		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	DB-624UI	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039245.D	1	10/03/25 13:07	VV100325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	17.5		0.26	1.00	ug/L
75-00-3	Chloroethane	18.1		0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	19.1		0.33	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.8		0.23	1.00	ug/L
107-13-1	Acrylonitrile	88.9		0.83	5.00	ug/L
67-64-1	Acetone	91.0		1.50	5.00	ug/L
75-15-0	Carbon Disulfide	16.0		0.21	1.00	ug/L
75-09-2	Methylene Chloride	19.9		0.28	1.00	ug/L
108-05-4	Vinyl Acetate	88.0		0.66	5.00	ug/L
78-93-3	2-Butanone	89.1		0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.2		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.2		0.19	1.00	ug/L
74-97-5	Bromochloromethane	19.3		0.22	1.00	ug/L
67-66-3	Chloroform	18.1		0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	18.2		0.20	1.00	ug/L
71-43-2	Benzene	19.4		0.15	1.00	ug/L
78-87-5	1,2-Dichloropropane	19.9		0.20	1.00	ug/L
74-95-3	Dibromomethane	19.8		0.25	1.00	ug/L
75-27-4	Bromodichloromethane	19.3		0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	100		0.68	5.00	ug/L
108-88-3	Toluene	20.9		0.14	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	21.1		0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	20.9		0.16	1.00	ug/L
591-78-6	2-Hexanone	91.8		0.89	5.00	ug/L
124-48-1	Dibromochloromethane	20.7		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	20.6		0.15	1.00	ug/L
127-18-4	Tetrachloroethene	20.3		0.23	1.00	ug/L
108-90-7	Chlorobenzene	20.2		0.12	1.00	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	20.3		0.19	1.00	ug/L
100-41-4	Ethyl Benzene	20.2		0.13	1.00	ug/L

Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	
Project:	Ansonia Landfill 2025	Date Received:	
Client Sample ID:	VV1003WBS01	SDG No.:	Q3254
Lab Sample ID:	VV1003WBS01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039245.D	1	10/03/25 13:07	VV100325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1330-20-7	Total Xylenes	64.6		0.36	3.00	ug/L
100-42-5	Styrene	19.7		0.15	1.00	ug/L
75-25-2	Bromoform	21.5		0.19	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	18.2		0.26	1.00	ug/L
96-18-4	1,2,3-Trichloropropane	18.1		0.35	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.3		0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.7		0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	20.5		0.53	1.00	ug/L
74-88-4	Methyl Iodide	22.0		0.83	5.00	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	19.0		0.84	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	41.7		74 - 125	83%	SPK: 50
1868-53-7	Dibromofluoromethane	49.6		75 - 124	99%	SPK: 50
2037-26-5	Toluene-d8	45.8		86 - 113	92%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.4		77 - 121	107%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	559000	4.596			
540-36-3	1,4-Difluorobenzene	866000	5.532			
3114-55-4	Chlorobenzene-d5	845000	8.773			
3855-82-1	1,4-Dichlorobenzene-d4	506000	11.172			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV100325\
 Data File : VV039245.D
 Acq On : 03 Oct 2025 13:07
 Operator : SY/MD
 Sample : VV1003WBS01
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VV1003WBS01

Quant Time: Oct 04 01:08:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 24 08:08:08 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	4.596	168	559480	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.532	114	866328	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.773	117	845304	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	506399	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.940	65	337839	41.722	ug/l	0.00
Spiked Amount	50.000	Range	81 - 118	Recovery	=	83.440%
35) Dibromofluoromethane	4.500	113	345571	49.618	ug/l	0.00
Spiked Amount	50.000	Range	80 - 119	Recovery	=	99.240%
50) Toluene-d8	7.236	98	936652	45.791	ug/l	0.00
Spiked Amount	50.000	Range	89 - 112	Recovery	=	91.580%
62) 4-Bromofluorobenzene	9.998	95	449945	53.433	ug/l	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	=	106.860%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.121	85	147312	16.633	ug/l	99
3) Chloromethane	1.230	50	159153	16.739	ug/l	98
4) Vinyl Chloride	1.297	62	178439	17.531	ug/l	100
5) Bromomethane	1.500	94	120645	18.802	ug/l	100
6) Chloroethane	1.561	64	116472	18.144	ug/l	97
7) Trichlorofluoromethane	1.725	101	280975	19.066	ug/l	100
8) Diethyl Ether	1.918	74	101959	18.637	ug/l	93
9) 1,1,2-Trichlorotrifluo...	2.082	101	169365	19.315	ug/l	96
10) Methyl Iodide	2.198	142	183933	22.028	ug/l	99
11) Tert butyl alcohol	2.564	59	154118	90.054	ug/l	96
12) 1,1-Dichloroethene	2.082	96	158669	18.810	ug/l	94
13) Acrolein	2.011	56	15337	51.646	ug/l	93
14) Allyl chloride	2.359	41	264501	17.554	ug/l	98
15) Acrylonitrile	2.674	53	487507	88.861	ug/l	99
16) Acetone	2.117	43	488555	91.016	ug/l	97
17) Carbon Disulfide	2.252	76	413185	16.016	ug/l	99
18) Methyl Acetate	2.381	43	253442	21.125	ug/l	96
19) Methyl tert-butyl Ether	2.709	73	532207	19.799	ug/l	99
20) Methylene Chloride	2.455	84	188042	19.948	ug/l	93
21) trans-1,2-Dichloroethene	2.703	96	166888	18.584	ug/l	98
22) Diisopropyl ether	3.214	45	522821	18.135	ug/l	82
23) Vinyl Acetate	3.188	43	2220327	88.039	ug/l	97
24) 1,1-Dichloroethane	3.117	63	320962	18.205	ug/l	98
25) 2-Butanone	3.867	43	577685	89.093	ug/l	98
26) 2,2-Dichloropropane	3.812	77	274205	17.541	ug/l	100
27) cis-1,2-Dichloroethene	3.821	96	190466	19.231	ug/l	95
28) Bromochloromethane	4.146	49	150145	19.291	ug/l	90
29) Tetrahydrofuran	4.236	42	347741	85.681	ug/l	96
30) Chloroform	4.278	83	333971	18.141	ug/l	98
31) Cyclohexane	4.584	56	237069	16.415	ug/l	96
32) 1,1,1-Trichloroethane	4.510	97	289772	18.181	ug/l	97
36) 1,1-Dichloropropene	4.744	75	198893	18.889	ug/l	98
37) Ethyl Acetate	3.982	43	217952	17.058	ug/l #	88
38) Carbon Tetrachloride	4.731	117	247222	19.211	ug/l	99
39) Methylcyclohexane	6.046	83	217981	17.142	ug/l	95
40) Benzene	5.008	78	664341	19.375	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV100325\
 Data File : VV039245.D
 Acq On : 03 Oct 2025 13:07
 Operator : SY/MD
 Sample : VV1003WBS01
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VV1003WBS01

Quant Time: Oct 04 01:08:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 24 08:08:08 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.166	41	93853	17.536	ug/l	91
42) 1,2-Dichloroethane	5.040	62	226266	18.833	ug/l	97
43) Isopropyl Acetate	5.194	43	331315	19.018	ug/l	98
44) Trichloroethene	5.831	130	164874	20.838	ug/l	98
45) 1,2-Dichloropropane	6.088	63	169707	19.912	ug/l	93
46) Dibromomethane	6.227	93	128921	19.764	ug/l	94
47) Bromodichloromethane	6.426	83	260291	19.302	ug/l	99
48) Methyl methacrylate	6.301	41	143613	18.186	ug/l	95
49) 1,4-Dioxane	6.294	88	48393	379.726	ug/l	99
51) 4-Methyl-2-Pentanone	7.146	43	1148145	100.178	ug/l	99
52) Toluene	7.307	92	415826	20.916	ug/l	98
53) t-1,3-Dichloropropene	7.574	75	247740	21.080	ug/l	99
54) cis-1,3-Dichloropropene	6.950	75	271589	20.933	ug/l	97
55) 1,1,2-Trichloroethane	7.760	97	178056	19.974	ug/l	96
56) Ethyl methacrylate	7.715	69	217780	20.572	ug/l	95
57) 1,3-Dichloropropane	7.934	76	287981	20.470	ug/l	98
58) 2-Chloroethyl Vinyl ether	6.812	63	475072	86.041	ug/l	96
59) 2-Hexanone	8.062	43	835938	91.844	ug/l	99
60) Dibromochloromethane	8.169	129	210459	20.720	ug/l	98
61) 1,2-Dibromoethane	8.275	107	187426	20.559	ug/l	99
64) Tetrachloroethene	7.895	164	143810	20.312	ug/l	98
65) Chlorobenzene	8.805	112	476325	20.230	ug/l	98
66) 1,1,1,2-Tetrachloroethane	8.898	131	172386	20.263	ug/l	99
67) Ethyl Benzene	8.937	91	720606	20.218	ug/l	98
68) m/p-Xylenes	9.062	106	592787	43.093	ug/l	99
69) o-Xylene	9.468	106	261997	21.510	ug/l	97
70) Styrene	9.487	104	486013	19.731	ug/l	99
71) Bromoform	9.654	173	142741	21.480	ug/l #	99
73) Isopropylbenzene	9.853	105	730232	19.881	ug/l	100
74) N-amyl acetate	9.725	43	277738	18.957	ug/l	97
75) 1,1,2,2-Tetrachloroethane	10.165	83	292188	18.156	ug/l	99
76) 1,2,3-Trichloropropane	10.197	75	208818	18.111	ug/l	97
77) Bromobenzene	10.140	156	197841	20.761	ug/l	94
78) n-propylbenzene	10.278	91	870650	19.466	ug/l	98
79) 2-Chlorotoluene	10.345	91	552648	20.649	ug/l	100
80) 1,3,5-Trimethylbenzene	10.464	105	623906	20.437	ug/l	100
81) trans-1,4-Dichloro-2-b...	9.927	75	91130	18.975	ug/l	98
82) 4-Chlorotoluene	10.461	91	637564	20.544	ug/l	98
83) tert-Butylbenzene	10.789	119	586432	19.264	ug/l	98
84) 1,2,4-Trimethylbenzene	10.841	105	608680	20.537	ug/l	97
85) sec-Butylbenzene	11.011	105	764641	18.937	ug/l	99
86) p-Isopropyltoluene	11.165	119	646503	19.237	ug/l	99
87) 1,3-Dichlorobenzene	11.104	146	388162	20.127	ug/l	99
88) 1,4-Dichlorobenzene	11.197	146	408220	19.293	ug/l	100
89) n-Butylbenzene	11.580	91	586984	18.289	ug/l	99
90) Hexachloroethane	11.818	117	137547	16.621	ug/l	95
91) 1,2-Dichlorobenzene	11.567	146	355232	19.715	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.352	75	58842	20.532	ug/l	99
93) 1,2,4-Trichlorobenzene	13.184	180	208698	20.205	ug/l	99
94) Hexachlorobutadiene	13.368	225	90851	16.928	ug/l	99
95) Naphthalene	13.426	128	654167	19.595	ug/l	99
96) 1,2,3-Trichlorobenzene	13.667	180	209698	19.850	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV100325\
Data File : VV039245.D
Acq On : 03 Oct 2025 13:07
Operator : SY/MD
Sample : VV1003WBS01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBS01

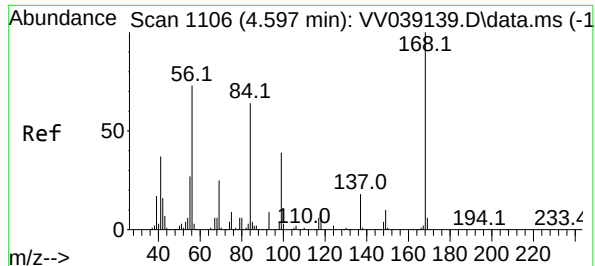
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Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBS01

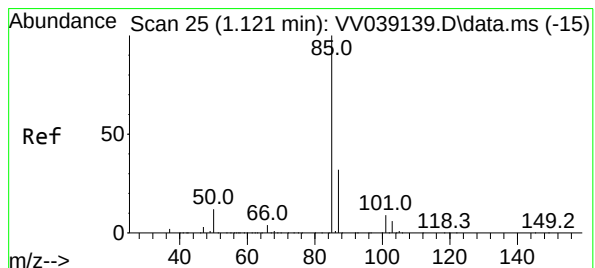
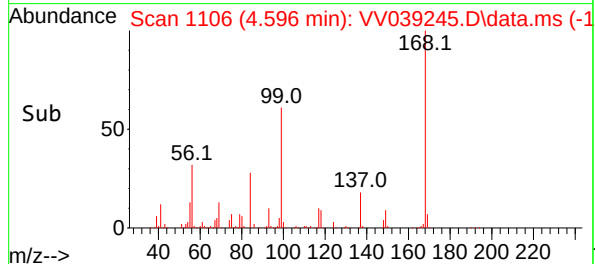
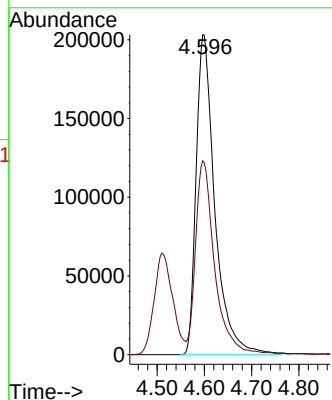
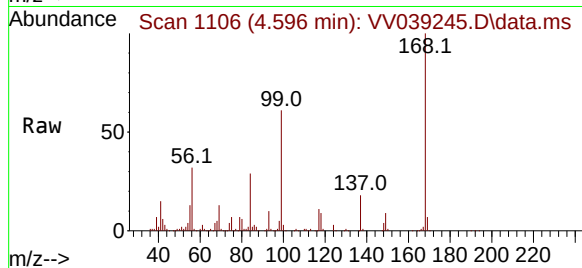
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- 15
- 16



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.596 min Scan# 11
Delta R.T. -0.001 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

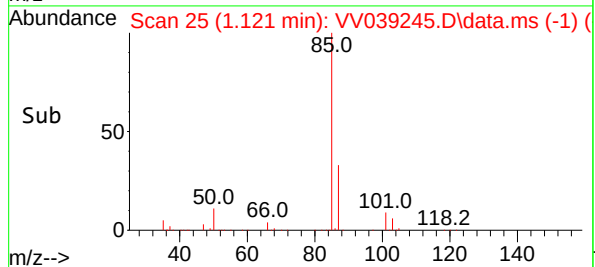
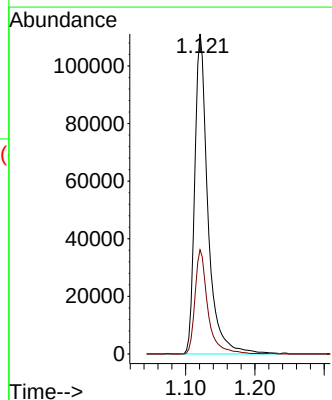
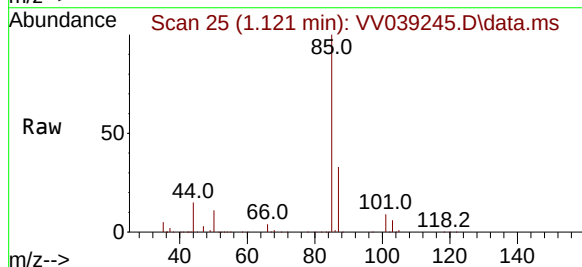
Instrument :
MSVOA_V
ClientSampleId :
VV1003WBS01

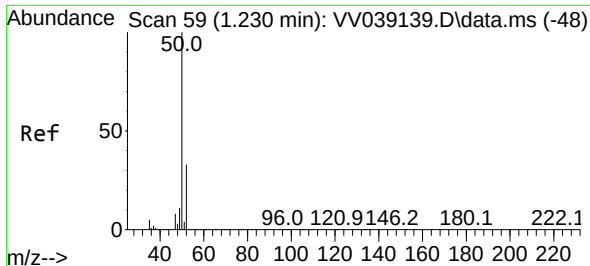
Tgt Ion:168 Resp: 559480
Ion Ratio Lower Upper
168 100
99 60.3 49.6 74.4



#2
Dichlorodifluoromethane
Concen: 16.633 ug/l
RT: 1.121 min Scan# 25
Delta R.T. -0.000 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Tgt Ion: 85 Resp: 147312
Ion Ratio Lower Upper
85 100
87 32.6 16.0 47.9





#3

Chloromethane

Concen: 16.739 ug/l

RT: 1.230 min Scan# 59

Delta R.T. -0.000 min

Lab File: VV039245.D

Acq: 03 Oct 2025 13:07

Instrument :

MSVOA_V

ClientSampleId :

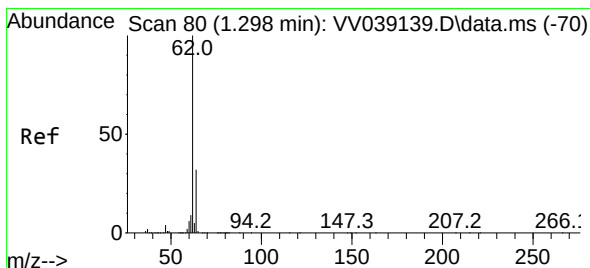
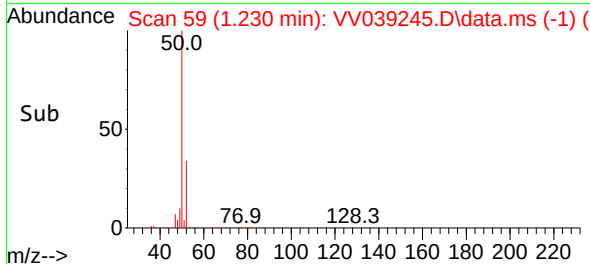
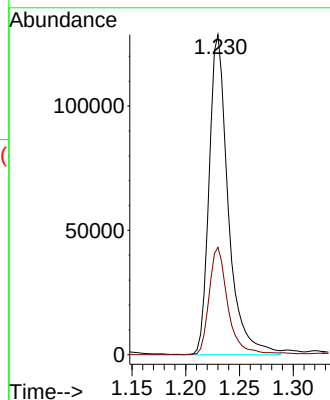
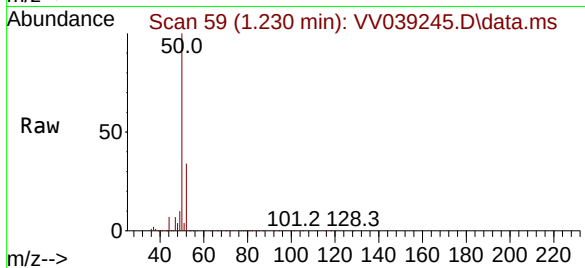
VV1003WBS01

Tgt Ion: 50 Resp: 159153

Ion Ratio Lower Upper

50 100

52 33.5 26.0 39.0



#4

Vinyl Chloride

Concen: 17.531 ug/l

RT: 1.297 min Scan# 80

Delta R.T. -0.000 min

Lab File: VV039245.D

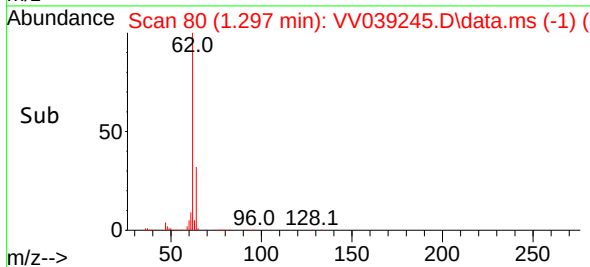
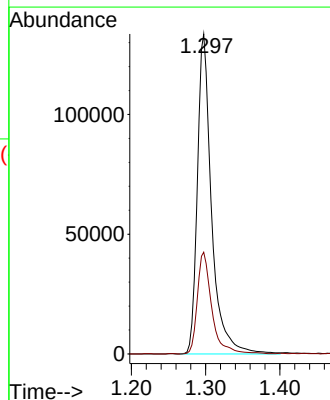
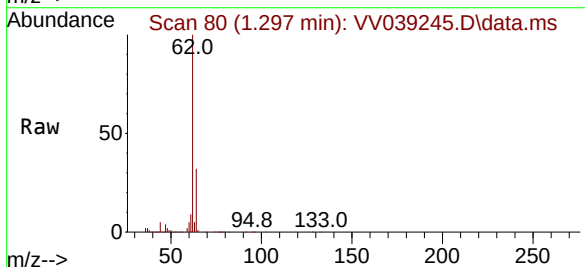
Acq: 03 Oct 2025 13:07

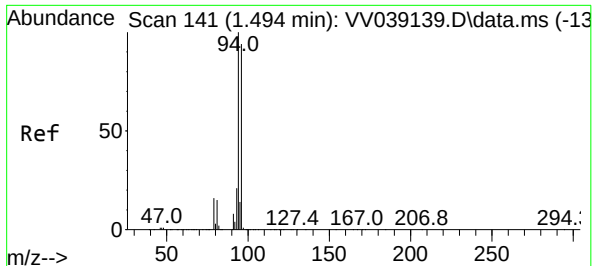
Tgt Ion: 62 Resp: 178439

Ion Ratio Lower Upper

62 100

64 31.8 25.6 38.4

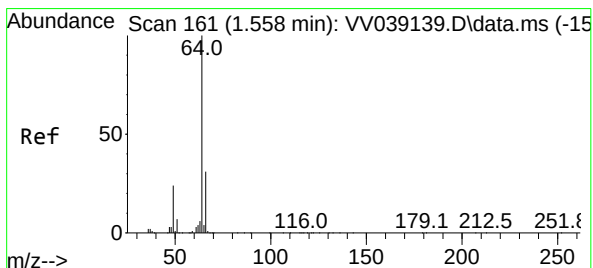
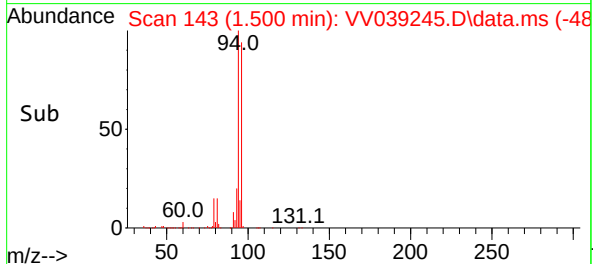
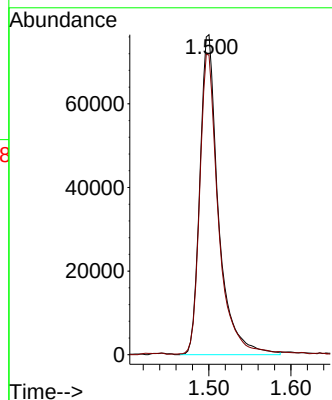
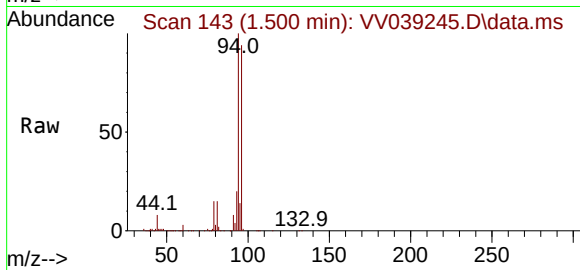




#5
Bromomethane
Concen: 18.802 ug/l
RT: 1.500 min Scan# 141
Delta R.T. 0.006 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

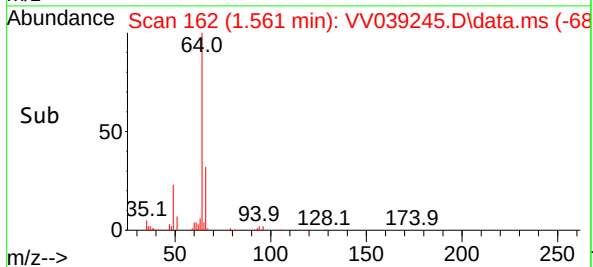
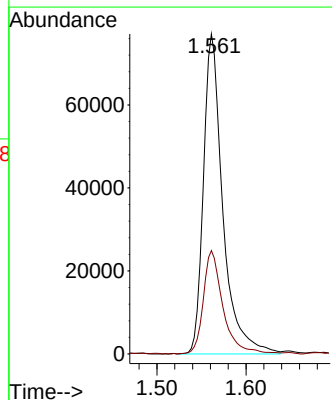
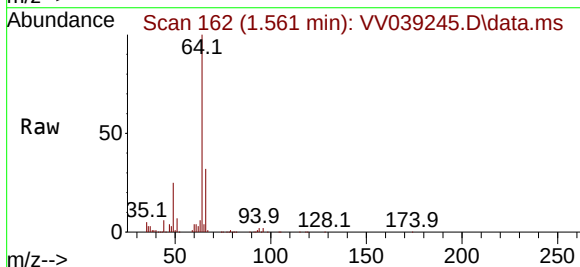
Instrument :
MSVOA_V
ClientSampleId :
VV1003WBS01

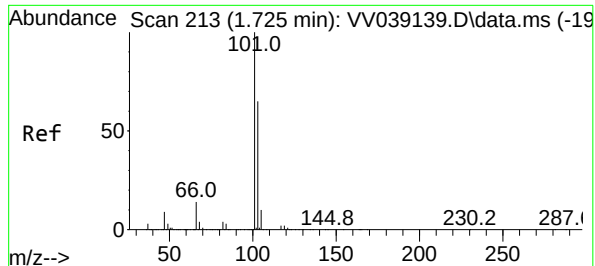
Tgt Ion: 94 Resp: 120645
Ion Ratio Lower Upper
94 100
96 93.4 74.9 112.3



#6
Chloroethane
Concen: 18.144 ug/l
RT: 1.561 min Scan# 162
Delta R.T. 0.003 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Tgt Ion: 64 Resp: 116472
Ion Ratio Lower Upper
64 100
66 32.2 24.6 36.8

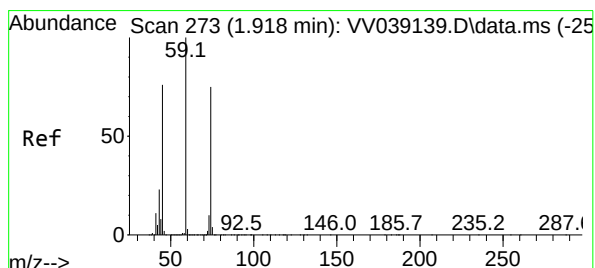
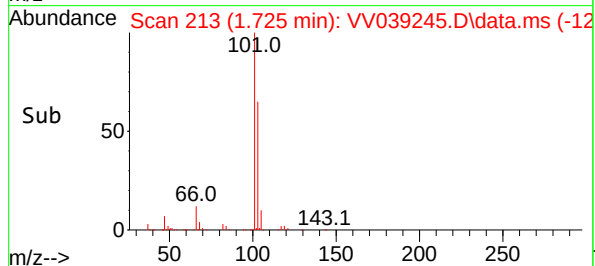
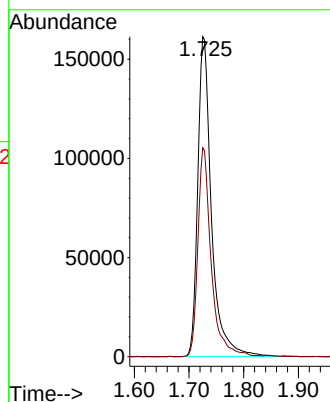
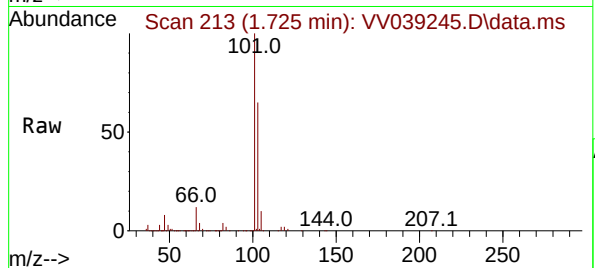




#7
Trichlorofluoromethane
Concen: 19.066 ug/l
RT: 1.725 min Scan# 213
Delta R.T. -0.000 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

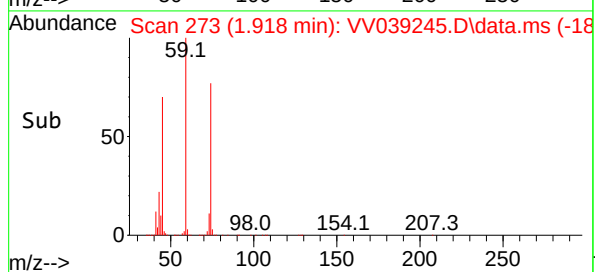
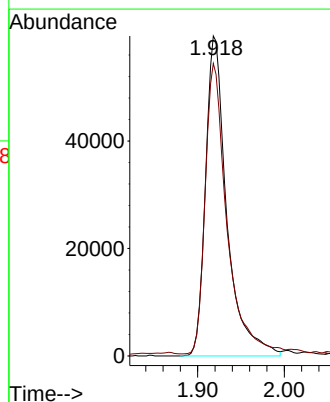
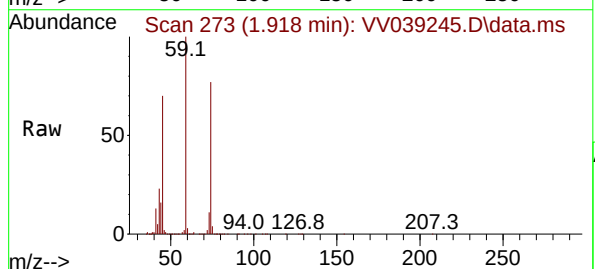
Instrument :
MSVOA_V
ClientSampleId :
VV1003WBS01

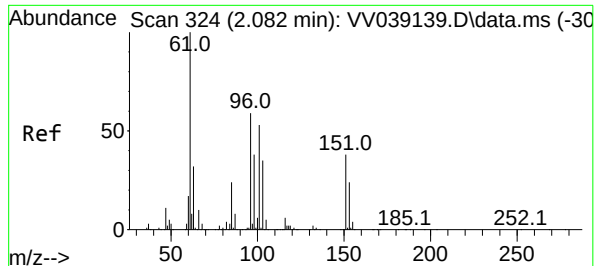
Tgt Ion:101 Resp: 280975
Ion Ratio Lower Upper
101 100
103 65.2 52.0 78.0



#8
Diethyl Ether
Concen: 18.637 ug/l
RT: 1.918 min Scan# 273
Delta R.T. 0.000 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Tgt Ion: 74 Resp: 101959
Ion Ratio Lower Upper
74 100
45 92.3 49.6 148.8

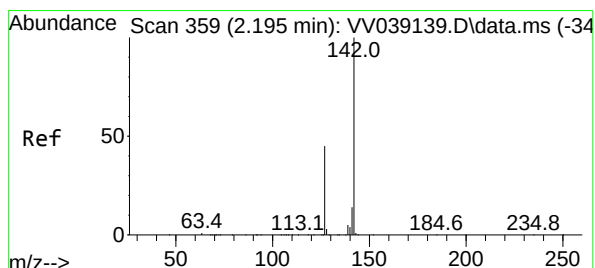
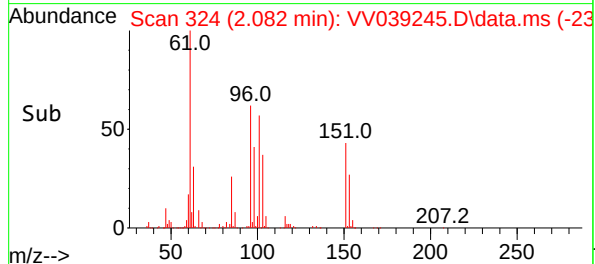
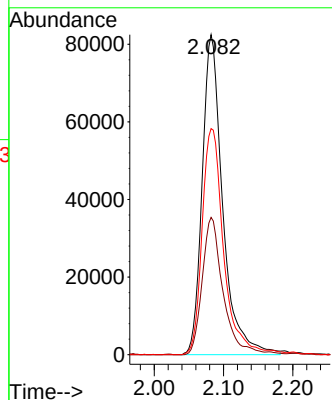
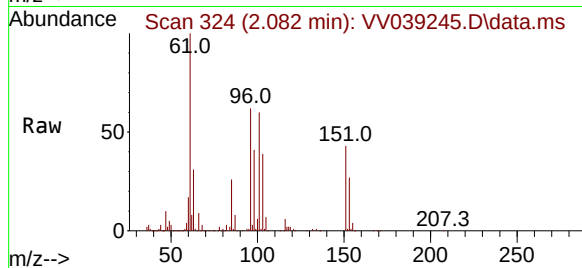




#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.315 ug/l
RT: 2.082 min Scan# 31
Delta R.T. -0.000 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

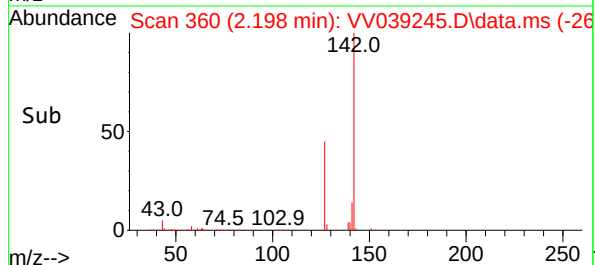
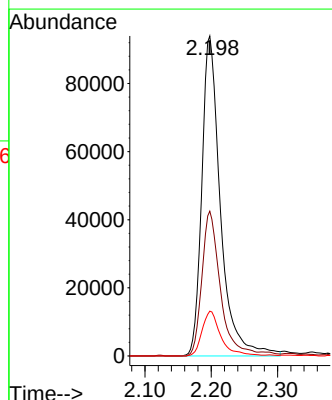
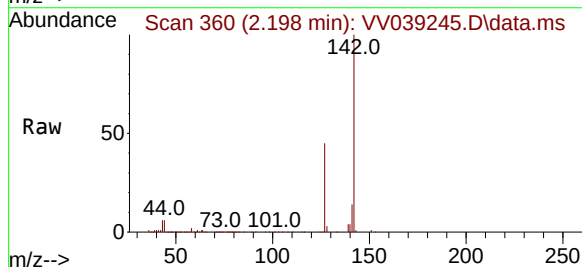
Instrument :
MSVOA_V
ClientSampleId :
VV1003WBS01

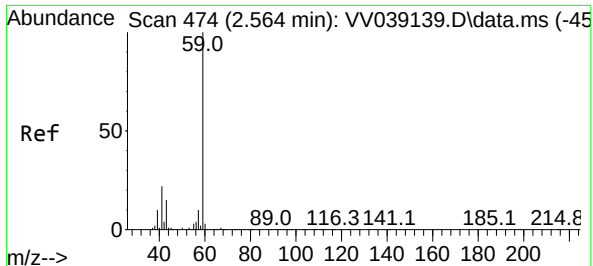
Tgt Ion:101 Resp: 169365
Ion Ratio Lower Upper
101 100
85 43.2 36.2 54.2
151 74.5 56.3 84.5



#10
Methyl Iodide
Concen: 22.028 ug/l
RT: 2.198 min Scan# 360
Delta R.T. 0.003 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Tgt Ion:142 Resp: 183933
Ion Ratio Lower Upper
142 100
127 44.5 36.3 54.5
141 14.1 11.2 16.8





#11

Tert butyl alcohol

Concen: 90.054 ug/l

RT: 2.564 min Scan# 41

Delta R.T. -0.000 min

Lab File: VV039245.D

Acq: 03 Oct 2025 13:07

Instrument :

MSVOA_V

ClientSampleId :

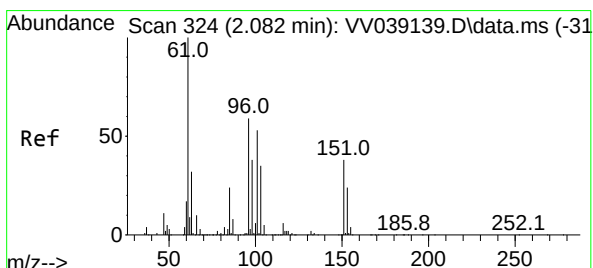
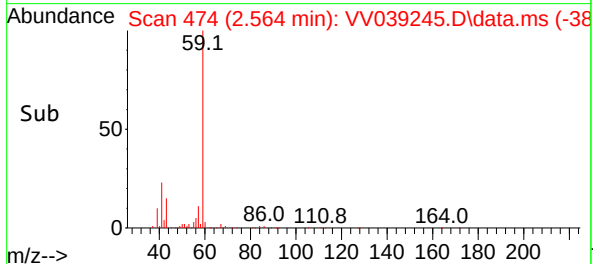
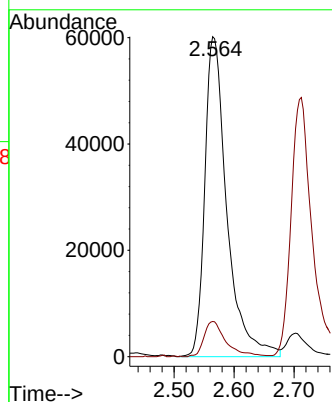
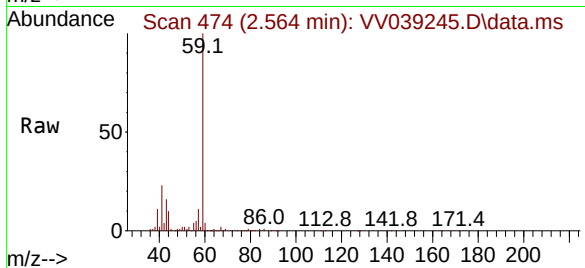
VV1003WBS01

Tgt Ion: 59 Resp: 154118

Ion Ratio Lower Upper

59 100

57 11.1 7.8 11.8



#12

1,1-Dichloroethene

Concen: 18.810 ug/l

RT: 2.082 min Scan# 324

Delta R.T. -0.000 min

Lab File: VV039245.D

Acq: 03 Oct 2025 13:07

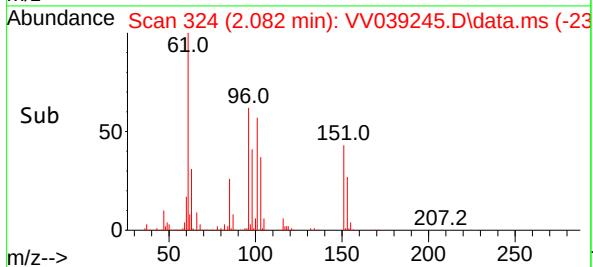
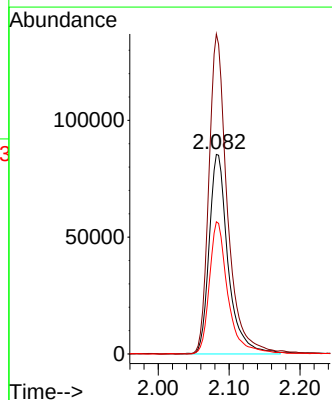
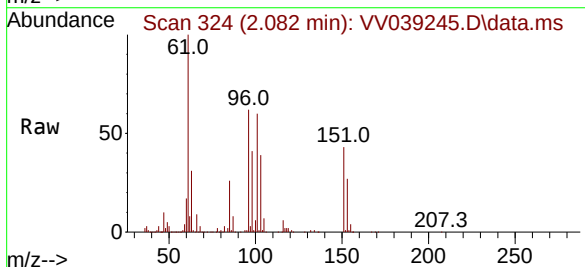
Tgt Ion: 96 Resp: 158669

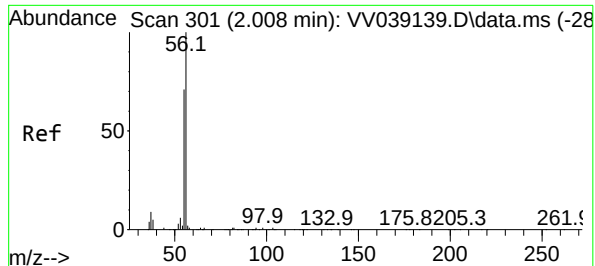
Ion Ratio Lower Upper

96 100

61 160.2 136.0 204.0

98 66.3 51.0 76.6

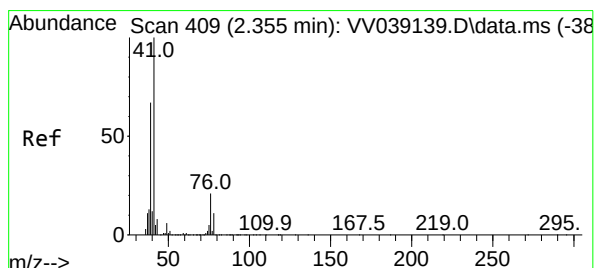
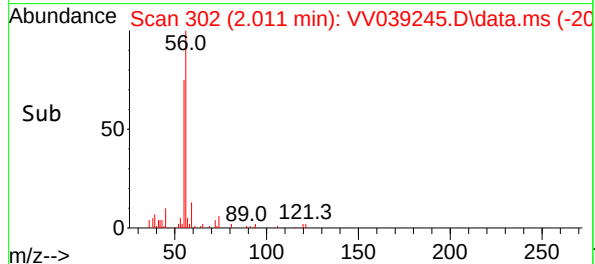
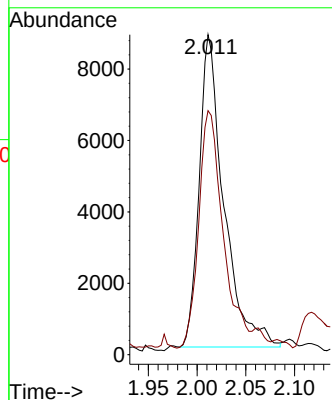
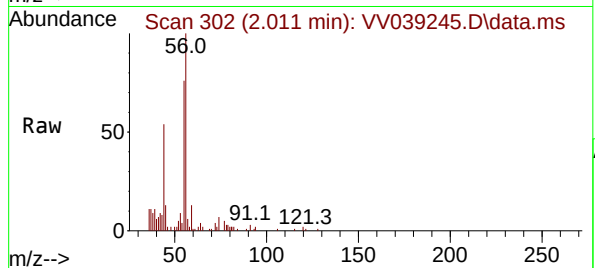




#13
Acrolein
Concen: 51.646 ug/l
RT: 2.011 min Scan# 301
Delta R.T. 0.003 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

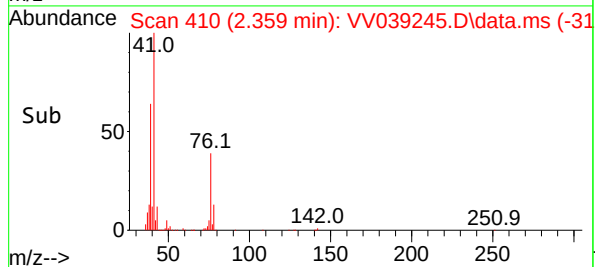
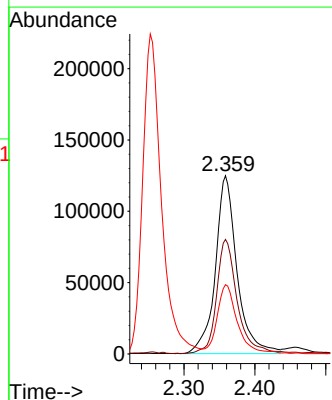
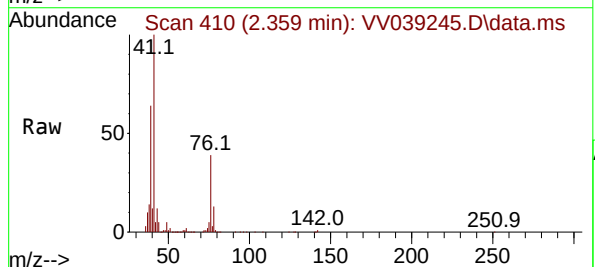
Instrument :
MSVOA_V
ClientSampleId :
VV1003WBS01

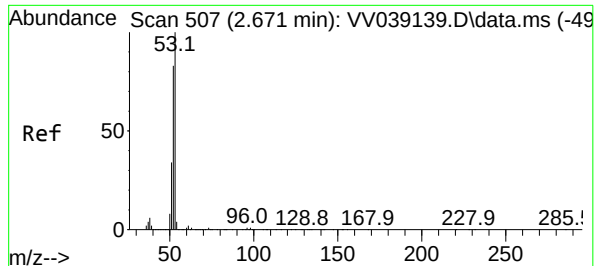
Tgt Ion: 56 Resp: 15337
Ion Ratio Lower Upper
56 100
55 75.7 56.2 84.4



#14
Allyl chloride
Concen: 17.554 ug/l
RT: 2.359 min Scan# 410
Delta R.T. 0.003 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Tgt Ion: 41 Resp: 264501
Ion Ratio Lower Upper
41 100
39 61.3 51.0 76.6
76 35.8 28.2 42.4





#15

Acrylonitrile

Concen: 88.861 ug/l

RT: 2.674 min Scan# 507

Delta R.T. 0.003 min

Lab File: VV039245.D

Acq: 03 Oct 2025 13:07

Instrument :

MSVOA_V

ClientSampleId :

VV1003WBS01

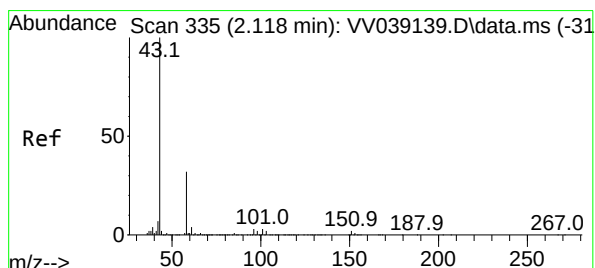
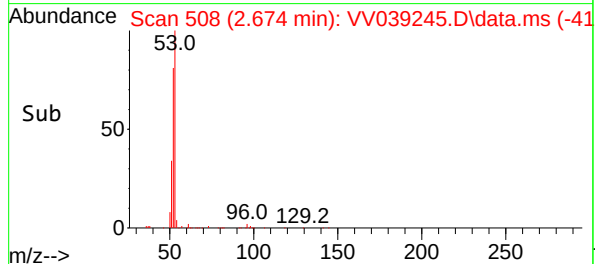
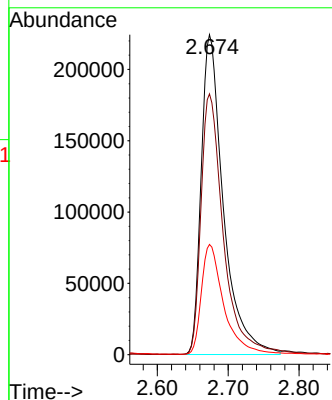
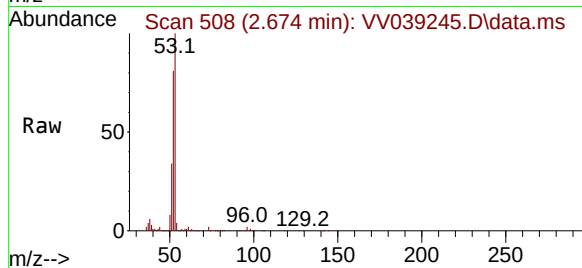
Tgt Ion: 53 Resp: 487507

Ion Ratio Lower Upper

53 100

52 82.3 66.1 99.1

51 34.8 28.5 42.7



#16

Acetone

Concen: 91.016 ug/l

RT: 2.117 min Scan# 335

Delta R.T. -0.001 min

Lab File: VV039245.D

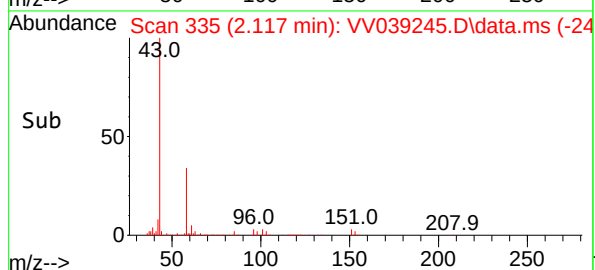
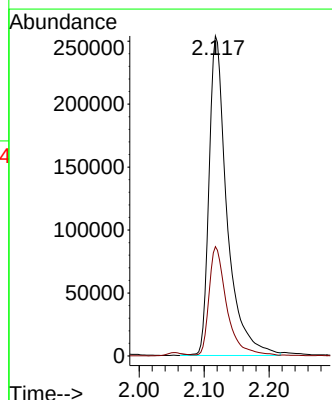
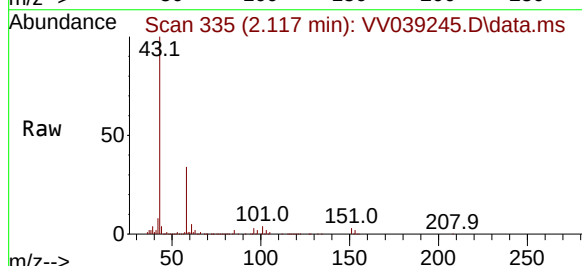
Acq: 03 Oct 2025 13:07

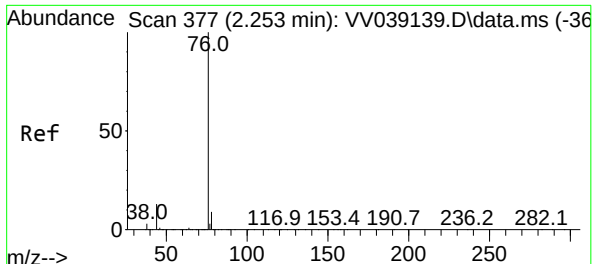
Tgt Ion: 43 Resp: 488555

Ion Ratio Lower Upper

43 100

58 33.9 25.8 38.6





#17

Carbon Disulfide

Concen: 16.016 ug/l

RT: 2.252 min Scan# 31

Delta R.T. -0.000 min

Lab File: VV039245.D

Acq: 03 Oct 2025 13:07

Instrument :

MSVOA_V

ClientSampleId :

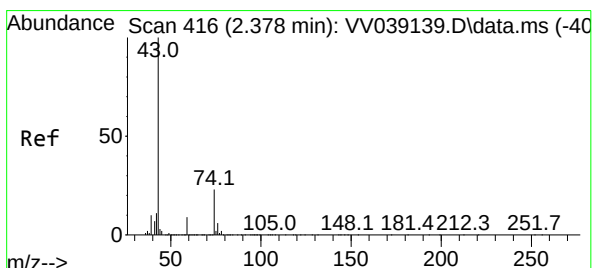
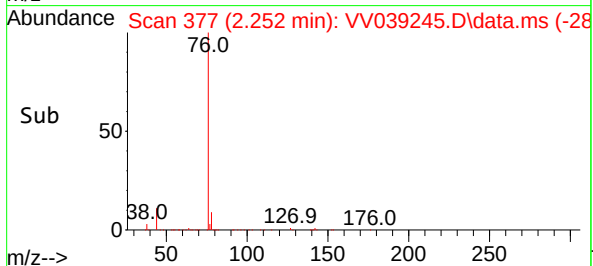
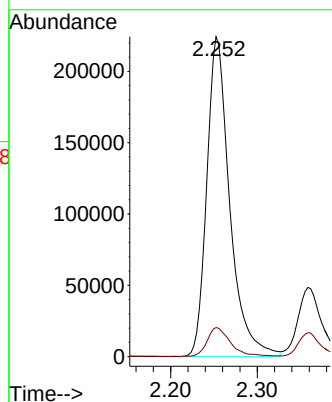
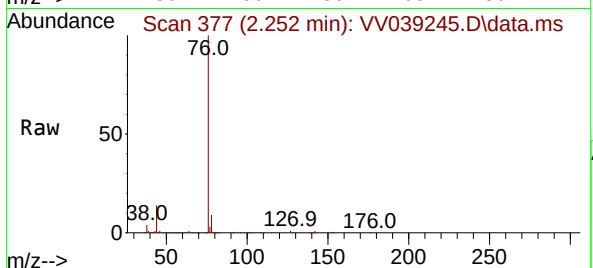
VV1003WBS01

Tgt Ion: 76 Resp: 413185

Ion Ratio Lower Upper

76 100

78 9.0 7.4 11.0



#18

Methyl Acetate

Concen: 21.125 ug/l

RT: 2.381 min Scan# 417

Delta R.T. 0.003 min

Lab File: VV039245.D

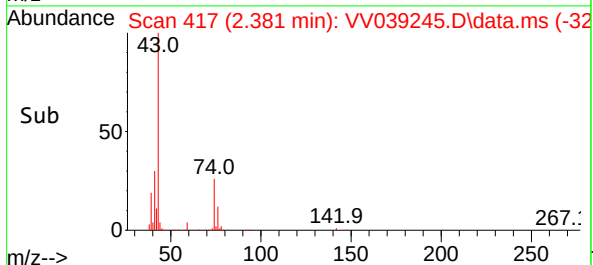
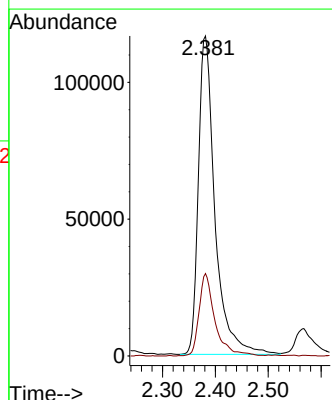
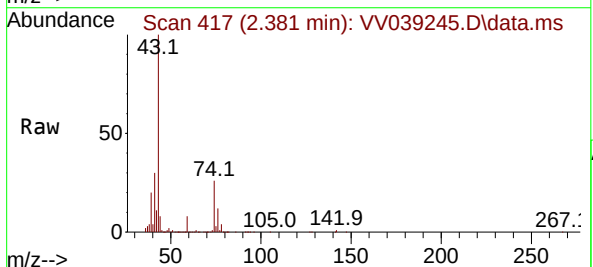
Acq: 03 Oct 2025 13:07

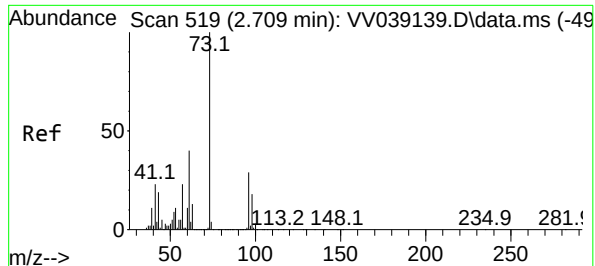
Tgt Ion: 43 Resp: 253442

Ion Ratio Lower Upper

43 100

74 24.9 18.6 27.8





#19

Methyl tert-butyl Ether

Concen: 19.799 ug/l

RT: 2.709 min Scan# 519

Delta R.T. -0.000 min

Lab File: VV039245.D

Acq: 03 Oct 2025 13:07

Instrument :

MSVOA_V

ClientSampleId :

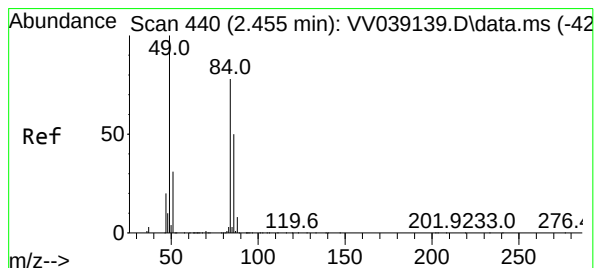
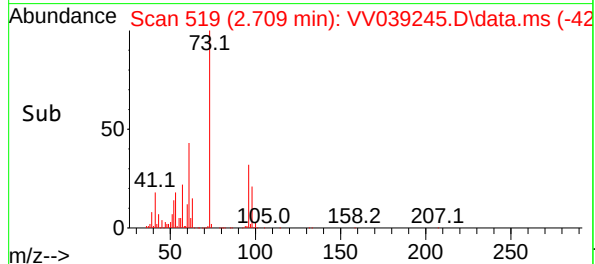
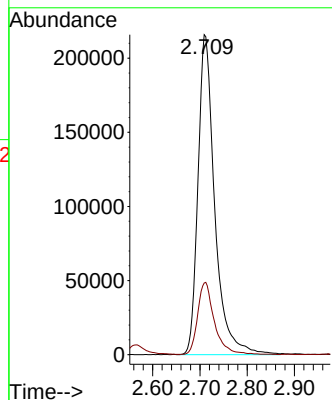
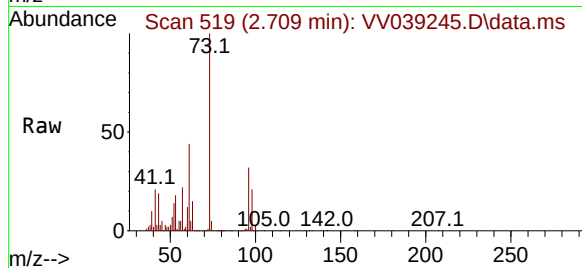
VV1003WBS01

Tgt Ion: 73 Resp: 532207

Ion Ratio Lower Upper

73 100

57 22.3 18.2 27.4



#20

Methylene Chloride

Concen: 19.948 ug/l

RT: 2.455 min Scan# 440

Delta R.T. 0.000 min

Lab File: VV039245.D

Acq: 03 Oct 2025 13:07

Tgt Ion: 84 Resp: 188042

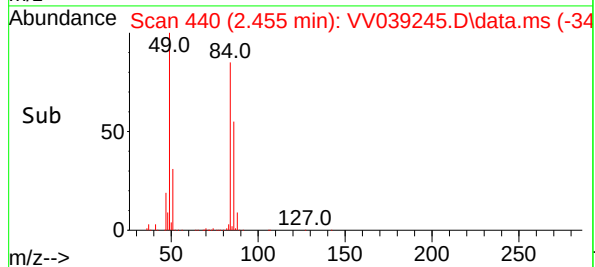
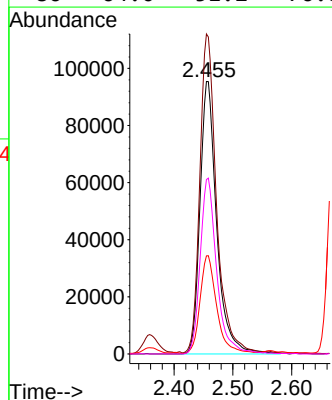
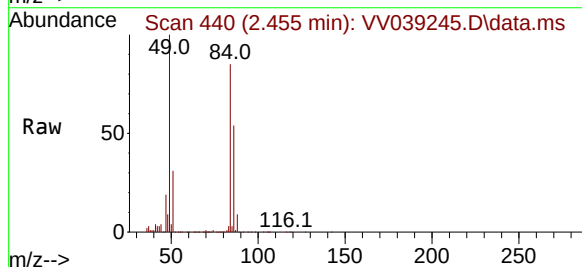
Ion Ratio Lower Upper

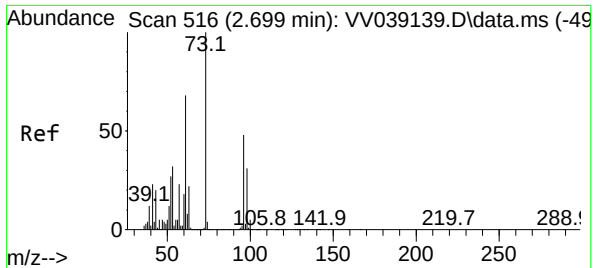
84 100

49 117.0 102.8 154.2

51 35.7 31.9 47.9

86 64.0 51.2 76.8

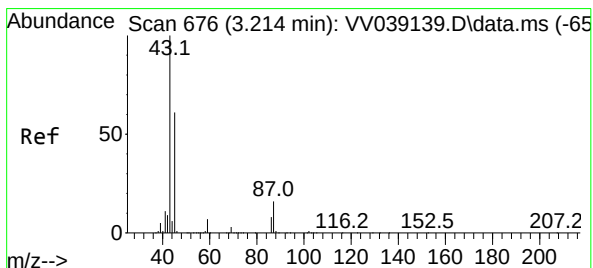
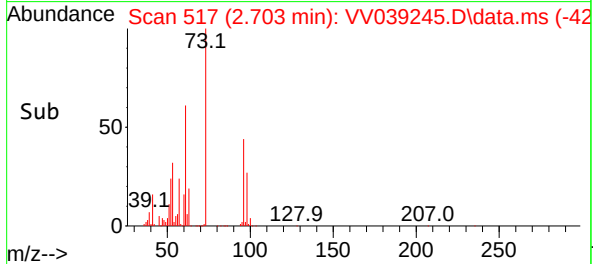
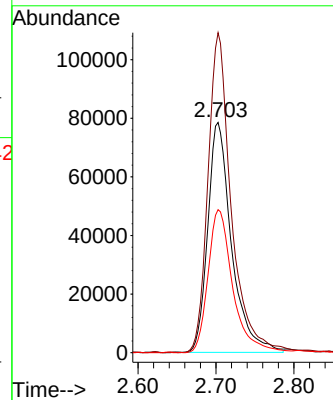
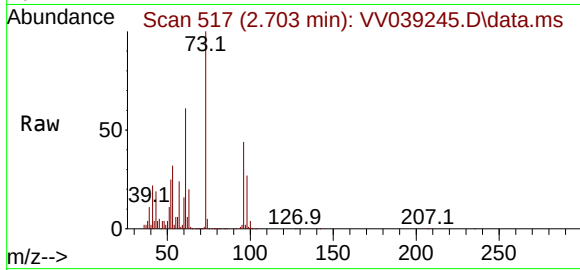




#21
trans-1,2-Dichloroethene
Concen: 18.584 ug/l
RT: 2.703 min Scan# 516
Delta R.T. 0.003 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

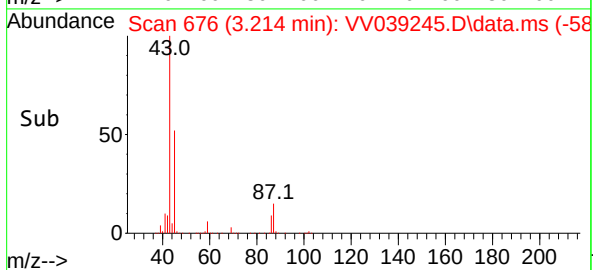
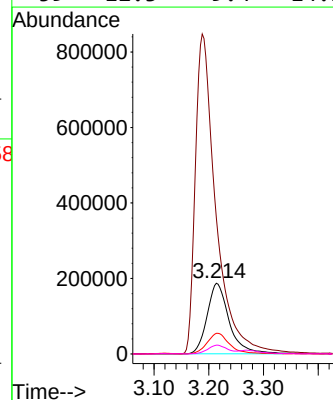
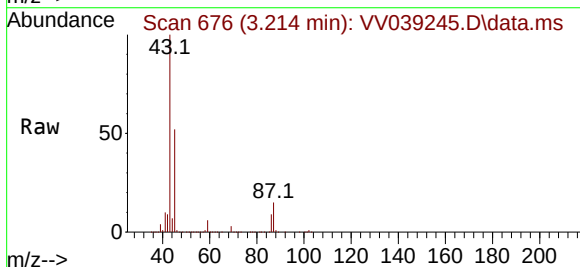
Instrument :
MSVOA_V
ClientSampleId :
VV1003WBS01

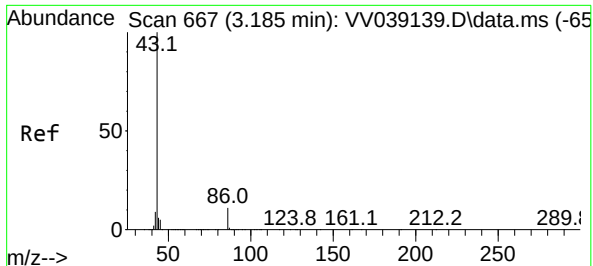
Tgt Ion: 96 Resp: 166888
Ion Ratio Lower Upper
96 100
61 139.0 112.8 169.2
98 62.2 51.1 76.7



#22
Diisopropyl ether
Concen: 18.135 ug/l
RT: 3.214 min Scan# 676
Delta R.T. -0.000 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Tgt Ion: 45 Resp: 522821
Ion Ratio Lower Upper
45 100
43 192.8 130.9 196.3
87 29.0 21.1 31.7
59 12.3 9.4 14.2





#23

Vinyl Acetate

Concen: 88.039 ug/l

RT: 3.188 min Scan# 667

Delta R.T. 0.003 min

Lab File: VV039245.D

Acq: 03 Oct 2025 13:07

Instrument :

MSVOA_V

ClientSampleId :

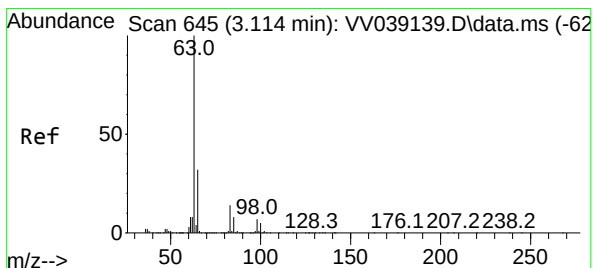
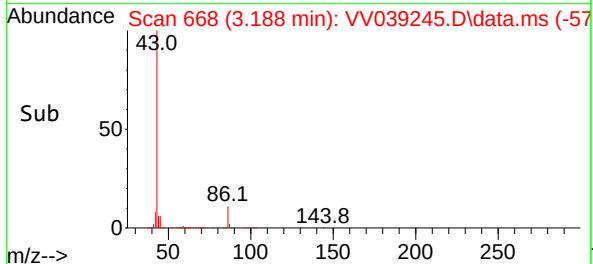
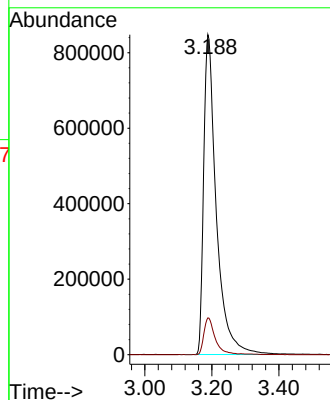
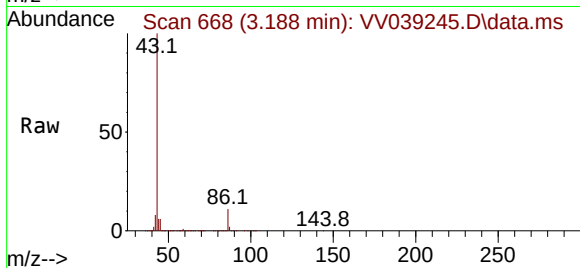
VV1003WBS01

Tgt Ion: 43 Resp: 2220327

Ion Ratio Lower Upper

43 100

86 11.5 8.4 12.6



#24

1,1-Dichloroethane

Concen: 18.205 ug/l

RT: 3.117 min Scan# 646

Delta R.T. 0.003 min

Lab File: VV039245.D

Acq: 03 Oct 2025 13:07

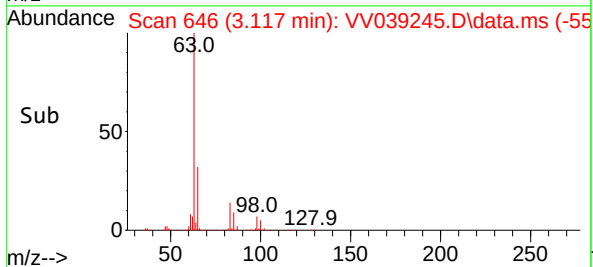
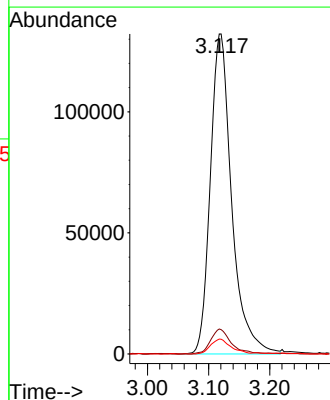
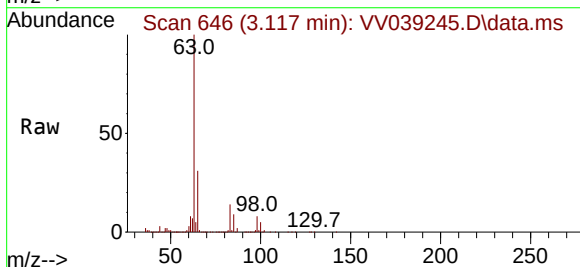
Tgt Ion: 63 Resp: 320962

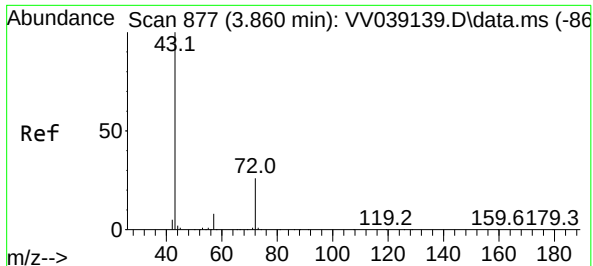
Ion Ratio Lower Upper

63 100

98 7.8 3.4 10.2

100 4.6 2.2 6.6





#25

2-Butanone

Concen: 89.093 ug/l

RT: 3.867 min Scan# 81

Delta R.T. 0.006 min

Lab File: VV039245.D

Acq: 03 Oct 2025 13:07

Instrument :

MSVOA_V

ClientSampleId :

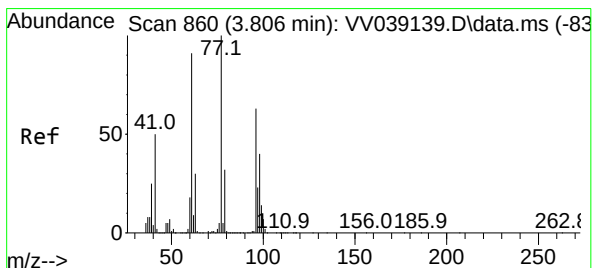
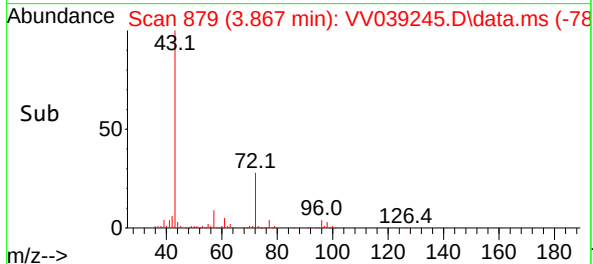
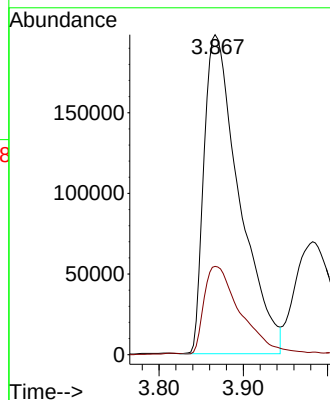
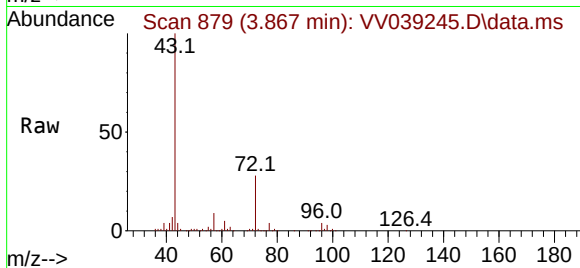
VV1003WBS01

Tgt Ion: 43 Resp: 577685

Ion Ratio Lower Upper

43 100

72 27.4 21.0 31.6



#26

2,2-Dichloropropane

Concen: 17.541 ug/l

RT: 3.812 min Scan# 862

Delta R.T. 0.006 min

Lab File: VV039245.D

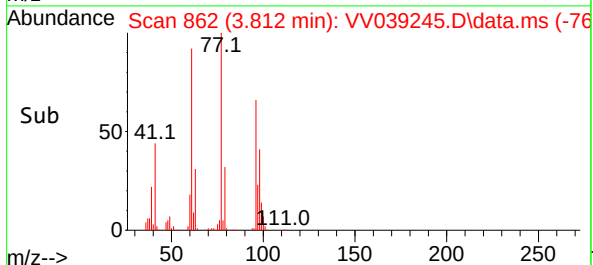
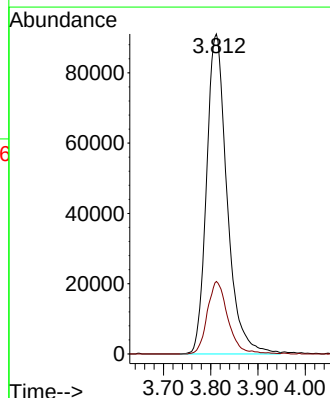
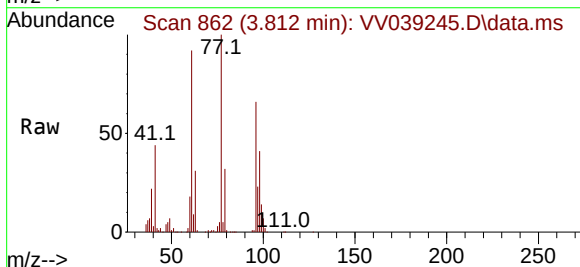
Acq: 03 Oct 2025 13:07

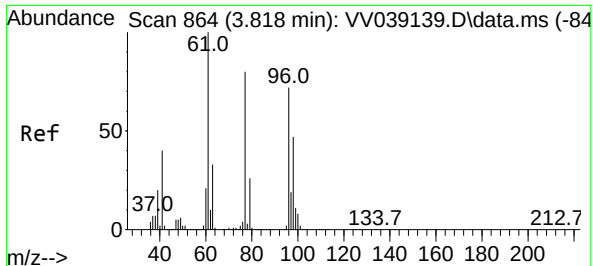
Tgt Ion: 77 Resp: 274205

Ion Ratio Lower Upper

77 100

97 22.9 11.6 34.7





#27

cis-1,2-Dichloroethene

Concen: 19.231 ug/l

RT: 3.821 min Scan# 865

Delta R.T. 0.003 min

Lab File: VV039245.D

Acq: 03 Oct 2025 13:07

Instrument :

MSVOA_V

ClientSampleId :

VV1003WBS01

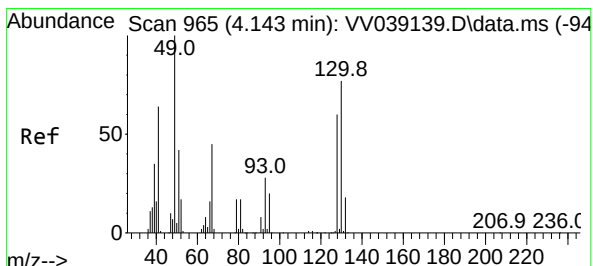
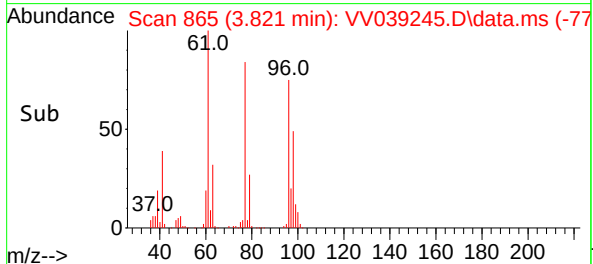
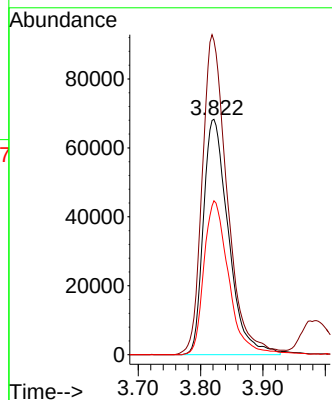
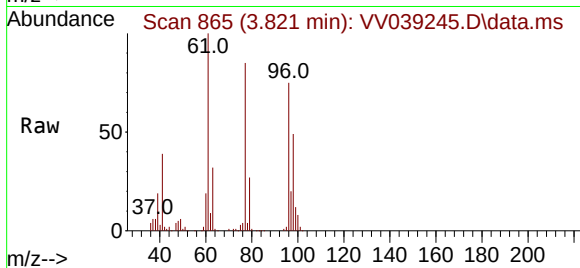
Tgt Ion: 96 Resp: 190466

Ion Ratio Lower Upper

96 100

61 136.0 0.0 286.4

98 64.9 0.0 126.6



#28

Bromochloromethane

Concen: 19.291 ug/l

RT: 4.146 min Scan# 966

Delta R.T. 0.003 min

Lab File: VV039245.D

Acq: 03 Oct 2025 13:07

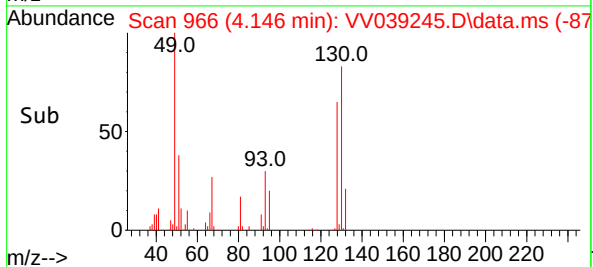
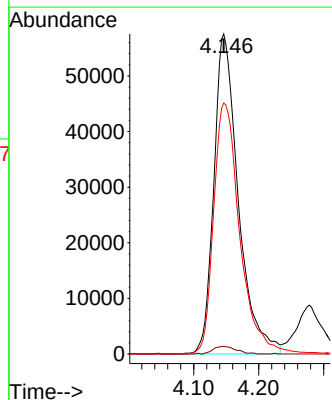
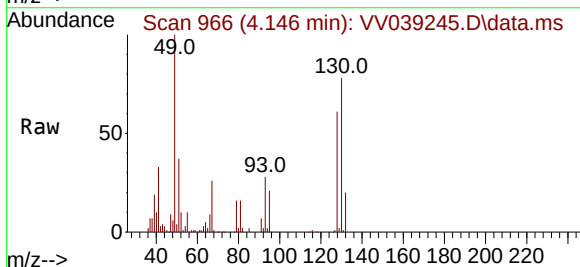
Tgt Ion: 49 Resp: 150145

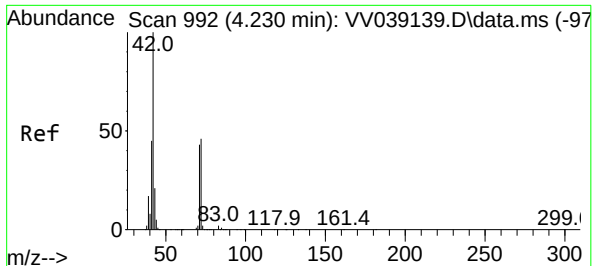
Ion Ratio Lower Upper

49 100

129 2.2 0.0 4.2

130 83.8 60.2 90.2





#29

Tetrahydrofuran

Concen: 85.681 ug/l

RT: 4.236 min Scan# 992

Delta R.T. 0.006 min

Lab File: VV039245.D

Acq: 03 Oct 2025 13:07

Instrument :

MSVOA_V

ClientSampleId :

VV1003WBS01

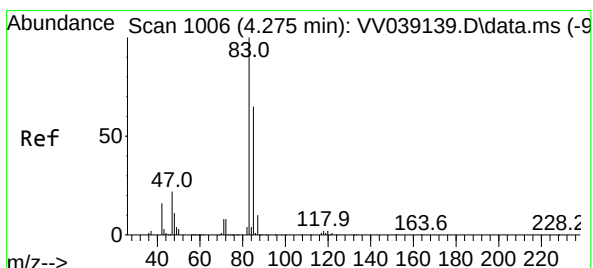
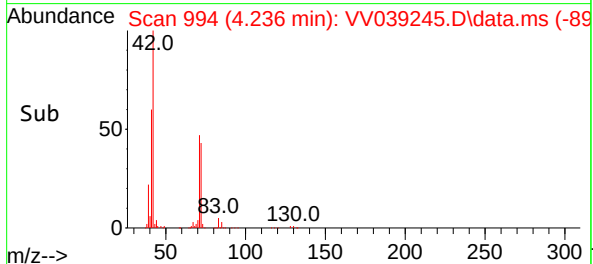
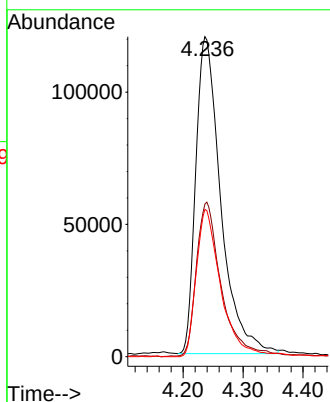
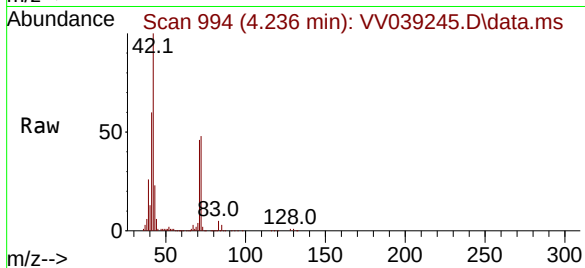
Tgt Ion: 42 Resp: 347741

Ion Ratio Lower Upper

42 100

72 48.1 36.3 54.5

71 45.4 34.3 51.5



#30

Chloroform

Concen: 18.141 ug/l

RT: 4.278 min Scan# 1007

Delta R.T. 0.003 min

Lab File: VV039245.D

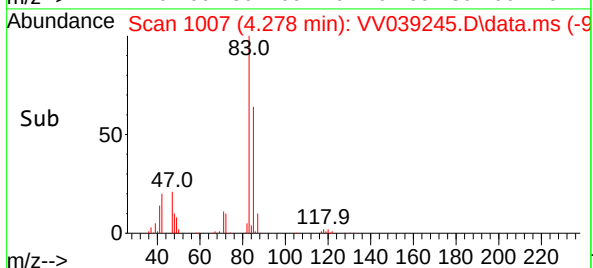
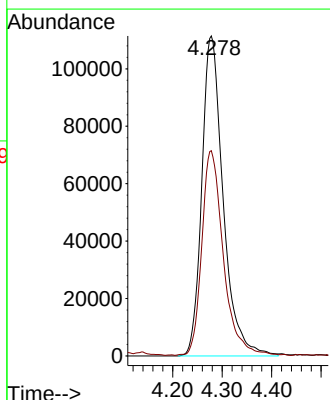
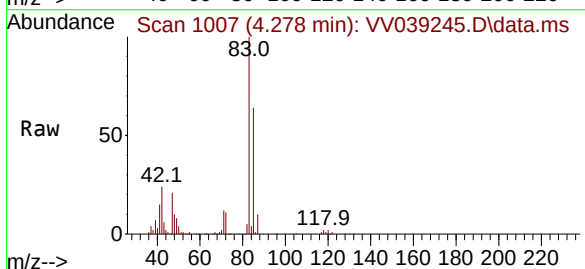
Acq: 03 Oct 2025 13:07

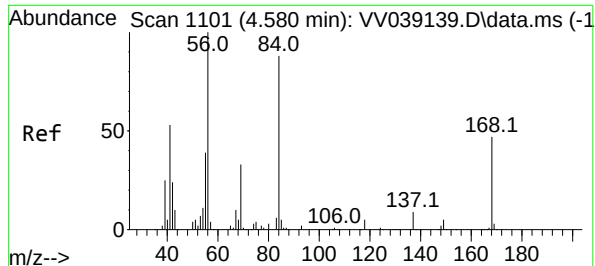
Tgt Ion: 83 Resp: 333971

Ion Ratio Lower Upper

83 100

85 63.8 52.1 78.1





#31

Cyclohexane

Concen: 16.415 ug/l

RT: 4.584 min Scan# 1101

Delta R.T. 0.003 min

Lab File: VV039245.D

Acq: 03 Oct 2025 13:07

Instrument :

MSVOA_V

ClientSampleId :

VV1003WBS01

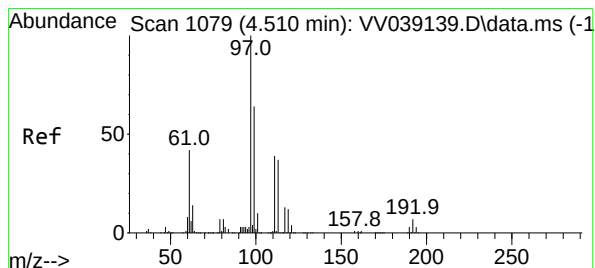
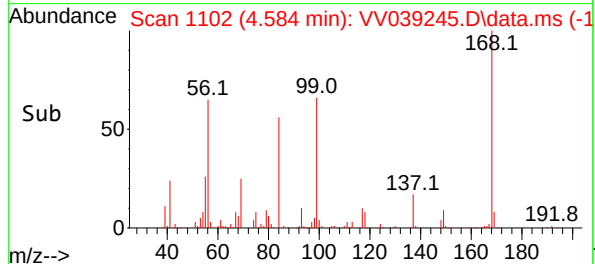
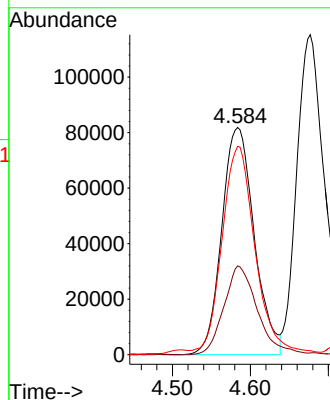
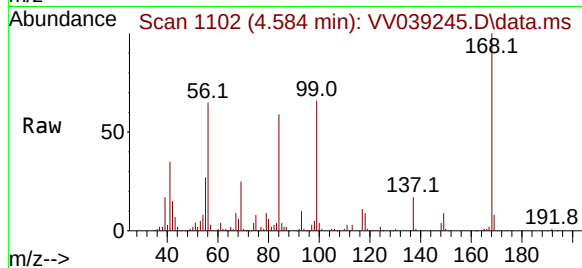
Tgt Ion: 56 Resp: 237069

Ion Ratio Lower Upper

56 100

69 39.1 26.2 39.2

84 89.6 70.3 105.5



#32

1,1,1-Trichloroethane

Concen: 18.181 ug/l

RT: 4.510 min Scan# 1079

Delta R.T. -0.000 min

Lab File: VV039245.D

Acq: 03 Oct 2025 13:07

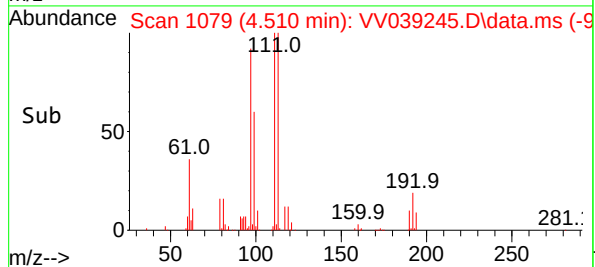
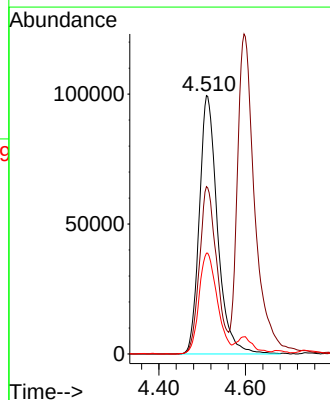
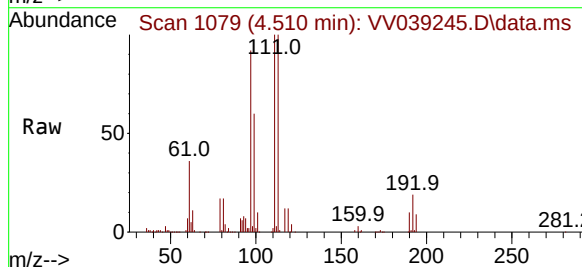
Tgt Ion: 97 Resp: 289772

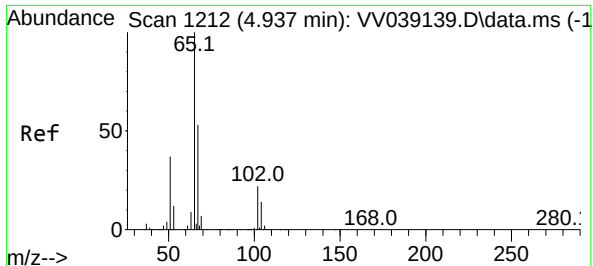
Ion Ratio Lower Upper

97 100

99 61.2 49.6 74.4

61 39.2 34.5 51.7





#33

1,2-Dichloroethane-d4

Concen: 41.722 ug/l

RT: 4.940 min Scan# 1212

Delta R.T. 0.003 min

Lab File: VV039245.D

Acq: 03 Oct 2025 13:07

Instrument :

MSVOA_V

ClientSampleId :

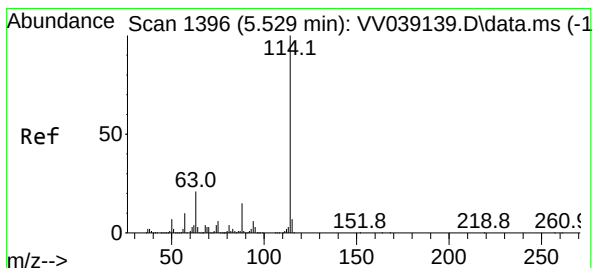
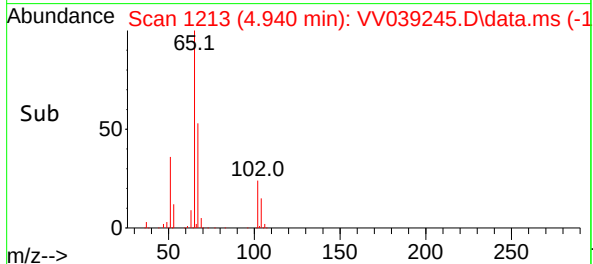
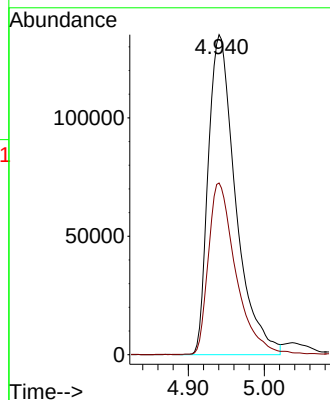
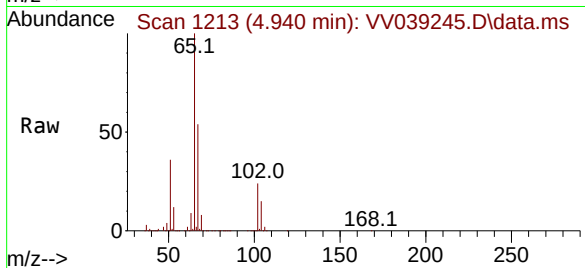
VV1003WBS01

Tgt Ion: 65 Resp: 337839

Ion Ratio Lower Upper

65 100

67 54.1 0.0 107.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.532 min Scan# 1397

Delta R.T. 0.003 min

Lab File: VV039245.D

Acq: 03 Oct 2025 13:07

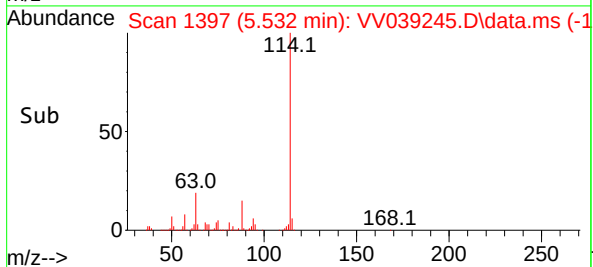
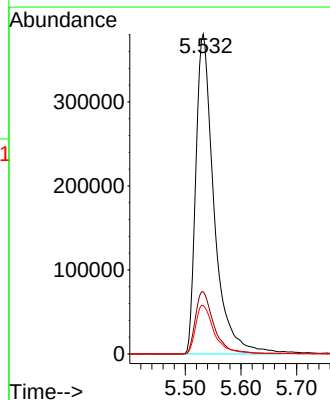
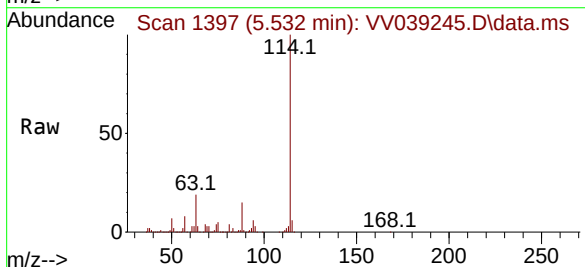
Tgt Ion: 114 Resp: 866328

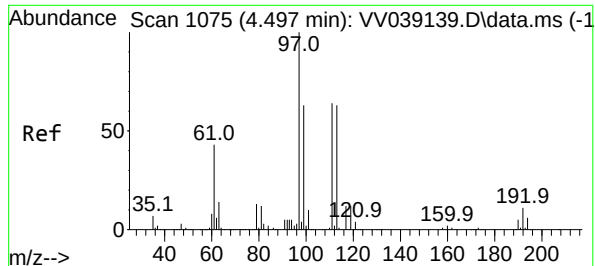
Ion Ratio Lower Upper

114 100

63 19.5 0.0 42.6

88 15.1 0.0 30.8





#35

Dibromofluoromethane

Concen: 49.618 ug/l

RT: 4.500 min Scan# 1113

Delta R.T. 0.003 min

Lab File: VV039245.D

Acq: 03 Oct 2025 13:07

Instrument :

MSVOA_V

ClientSampleId :

VV1003WBS01

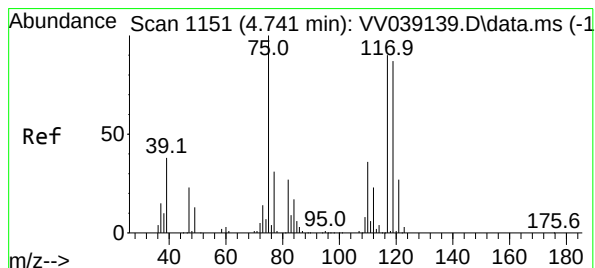
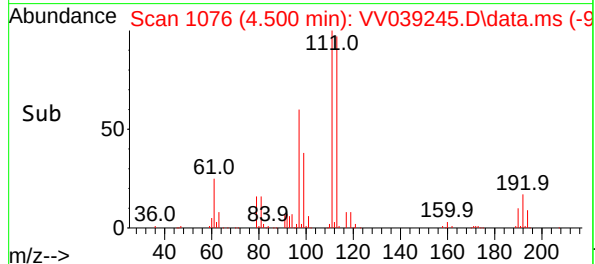
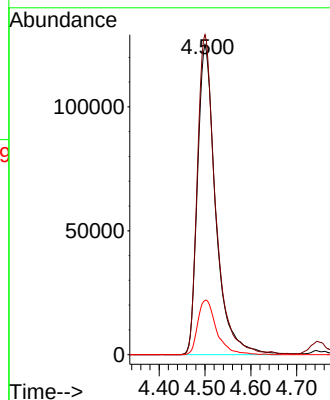
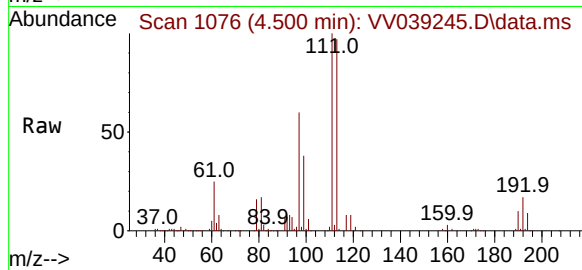
Tgt Ion:113 Resp: 345571

Ion Ratio Lower Upper

113 100

111 102.2 82.4 123.6

192 18.1 13.8 20.8



#36

1,1-Dichloropropene

Concen: 18.889 ug/l

RT: 4.744 min Scan# 1152

Delta R.T. 0.003 min

Lab File: VV039245.D

Acq: 03 Oct 2025 13:07

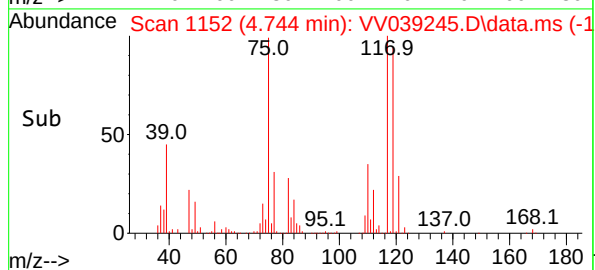
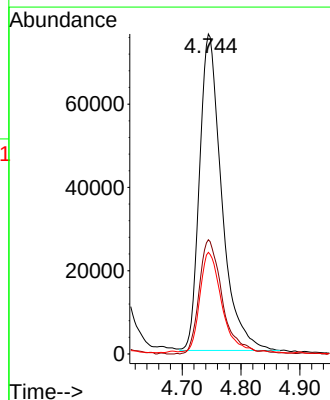
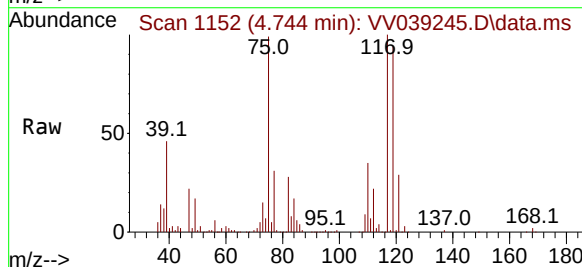
Tgt Ion: 75 Resp: 198893

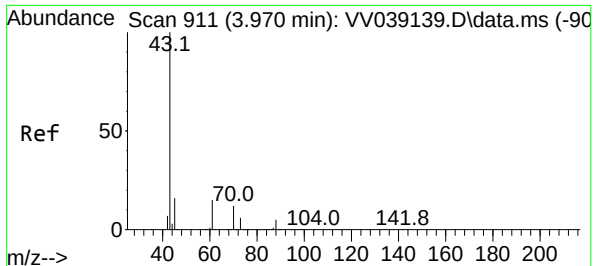
Ion Ratio Lower Upper

75 100

110 37.6 18.1 54.1

77 30.1 24.8 37.2





#37

Ethyl Acetate

Concen: 17.058 ug/l

RT: 3.982 min Scan# 911

Delta R.T. 0.012 min

Lab File: VV039245.D

Acq: 03 Oct 2025 13:07

Instrument :

MSVOA_V

ClientSampleId :

VV1003WBS01

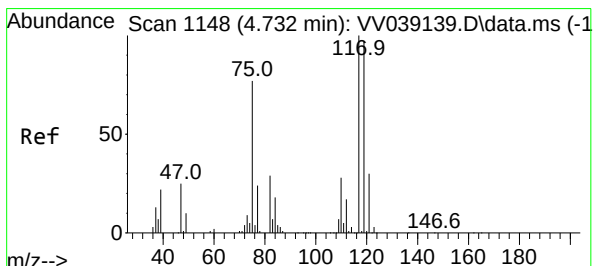
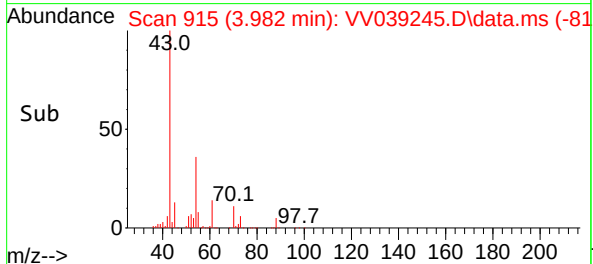
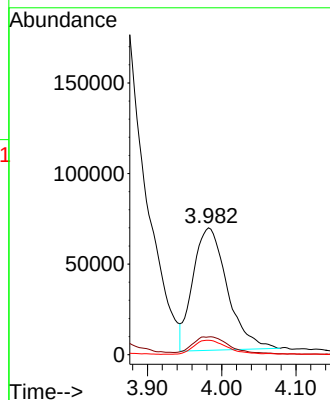
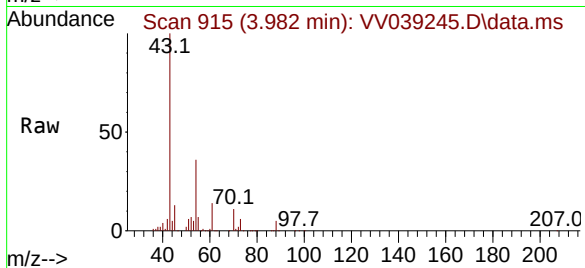
Tgt Ion: 43 Resp: 217952

Ion Ratio Lower Upper

43 100

61 5.0 10.3 15.5#

70 10.9 8.0 12.0



#38

Carbon Tetrachloride

Concen: 19.211 ug/l

RT: 4.731 min Scan# 1148

Delta R.T. -0.001 min

Lab File: VV039245.D

Acq: 03 Oct 2025 13:07

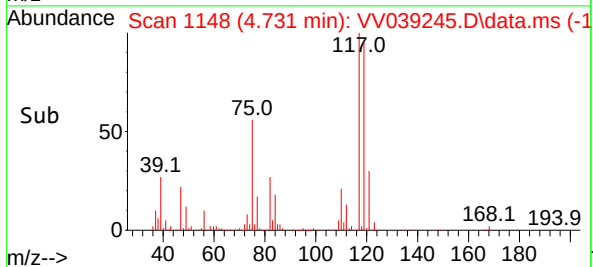
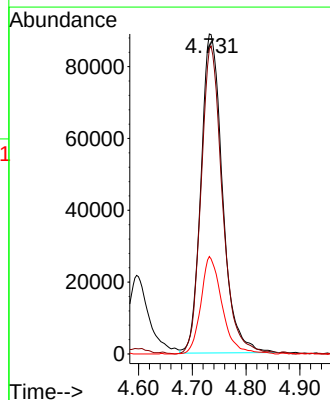
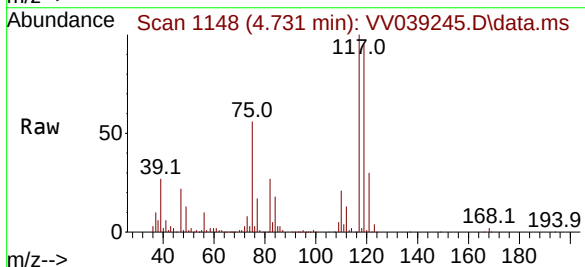
Tgt Ion: 117 Resp: 247222

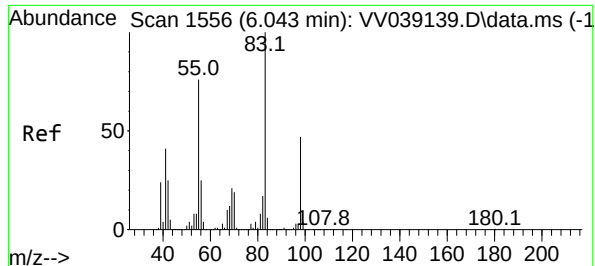
Ion Ratio Lower Upper

117 100

119 95.4 77.2 115.8

121 30.5 24.2 36.2





#39

Methylcyclohexane

Concen: 17.142 ug/l

RT: 6.046 min Scan# 11

Delta R.T. 0.003 min

Lab File: VV039245.D

Acq: 03 Oct 2025 13:07

Instrument :

MSVOA_V

ClientSampleId :

VV1003WBS01

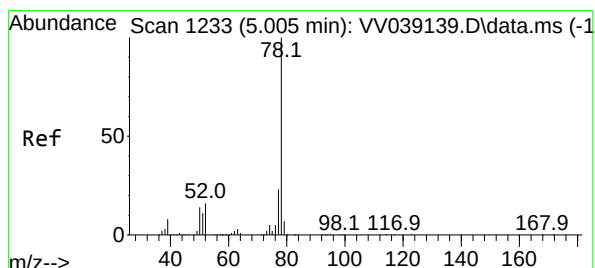
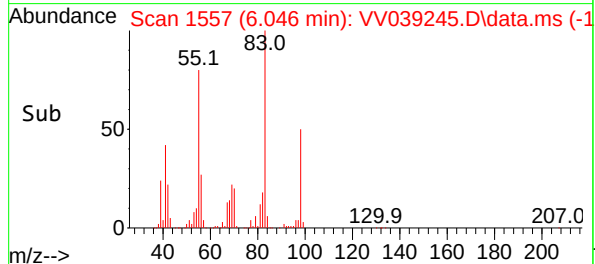
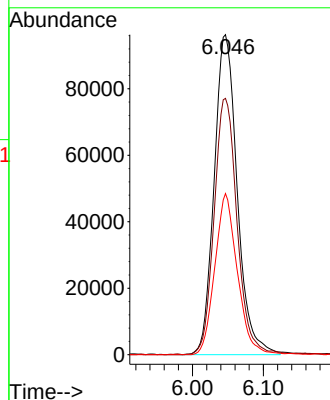
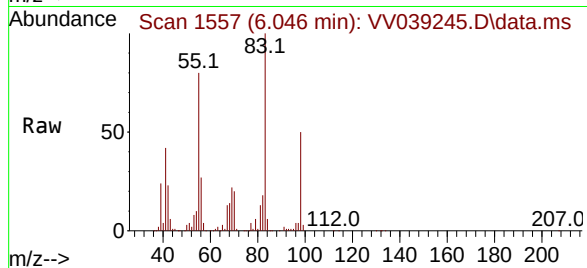
Tgt Ion: 83 Resp: 217981

Ion Ratio Lower Upper

83 100

55 79.9 60.5 90.7

98 50.4 37.8 56.6



#40

Benzene

Concen: 19.375 ug/l

RT: 5.008 min Scan# 1234

Delta R.T. 0.003 min

Lab File: VV039245.D

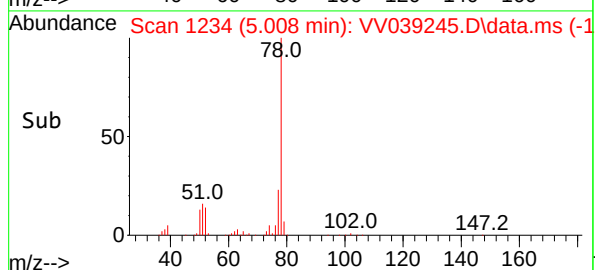
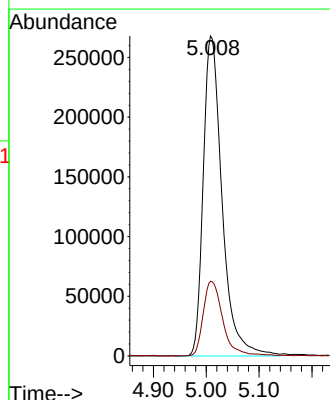
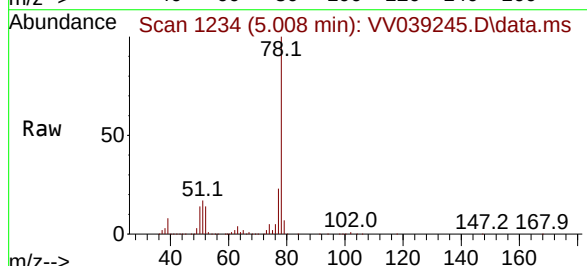
Acq: 03 Oct 2025 13:07

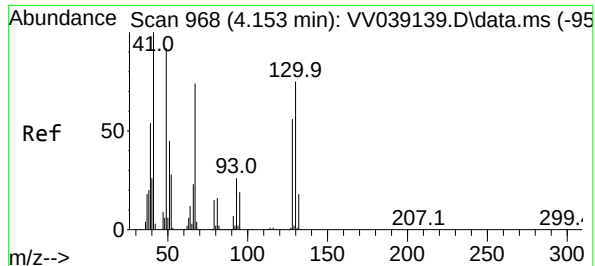
Tgt Ion: 78 Resp: 664341

Ion Ratio Lower Upper

78 100

77 23.3 18.7 28.1



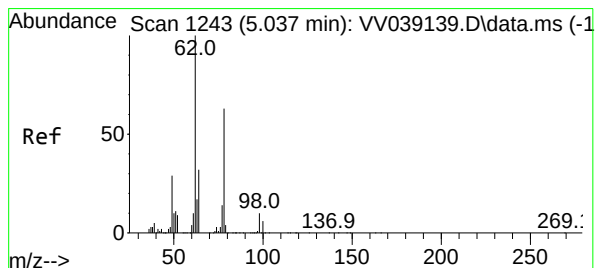
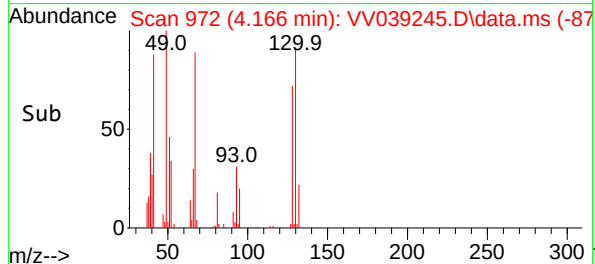
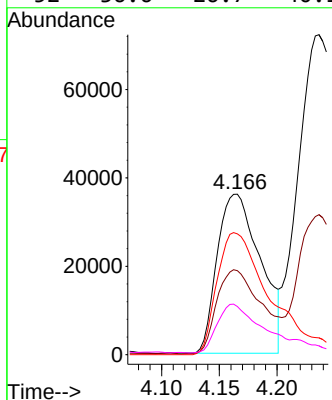
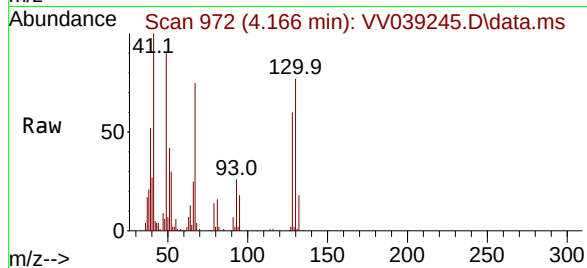


#41
Methacrylonitrile
Concen: 17.536 ug/l
RT: 4.166 min Scan# 91
Delta R.T. 0.013 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBS01

Tgt Ion: 41 Resp: 93853

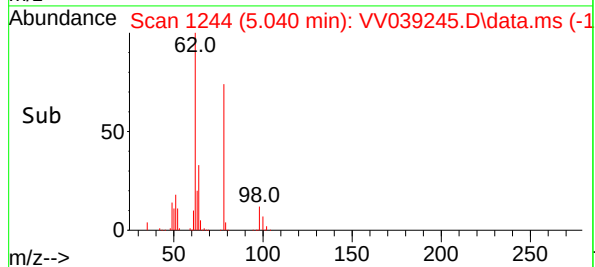
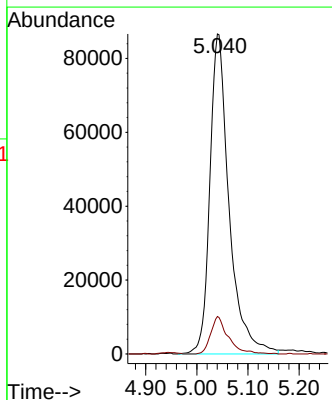
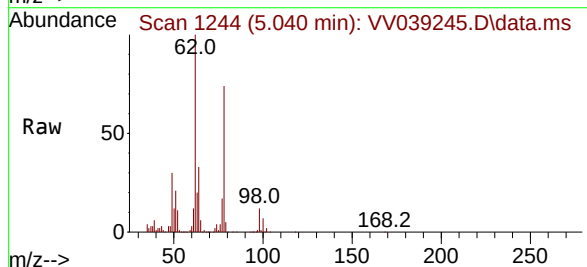
Ion	Ratio	Lower	Upper
41	100		
39	55.5	42.2	63.2
67	96.3	67.9	101.9
52	36.6	26.7	40.1

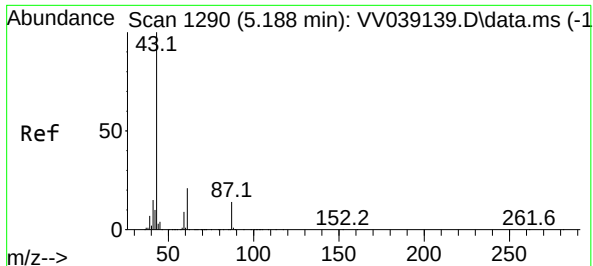


#42
1,2-Dichloroethane
Concen: 18.833 ug/l
RT: 5.040 min Scan# 1244
Delta R.T. 0.003 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Tgt Ion: 62 Resp: 226266

Ion	Ratio	Lower	Upper
62	100		
98	10.7	0.0	19.2





#43

Isopropyl Acetate

Concen: 19.018 ug/l

RT: 5.194 min Scan# 11

Delta R.T. 0.006 min

Lab File: VV039245.D

Acq: 03 Oct 2025 13:07

Instrument :

MSVOA_V

ClientSampleId :

VV1003WBS01

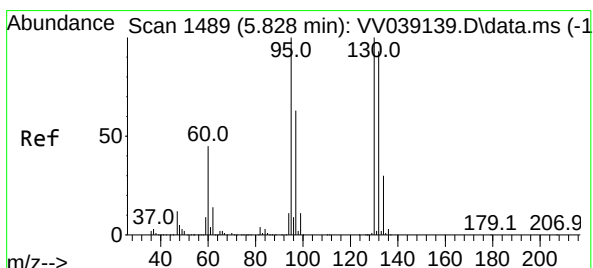
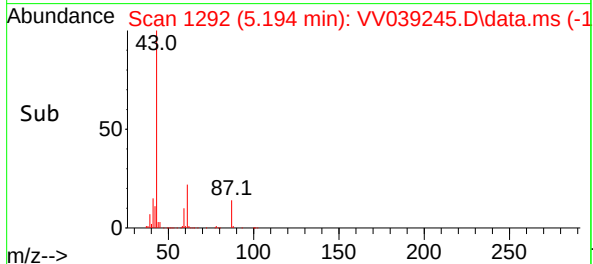
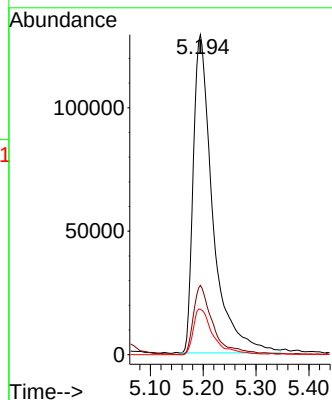
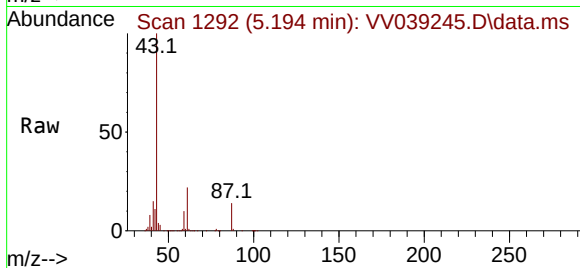
Tgt Ion: 43 Resp: 331315

Ion Ratio Lower Upper

43 100

61 21.2 15.9 23.9

87 14.5 11.0 16.6



#44

Trichloroethene

Concen: 20.838 ug/l

RT: 5.831 min Scan# 1490

Delta R.T. 0.003 min

Lab File: VV039245.D

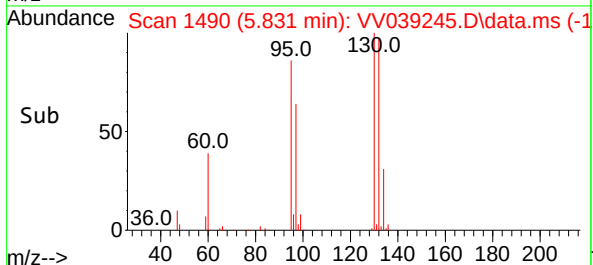
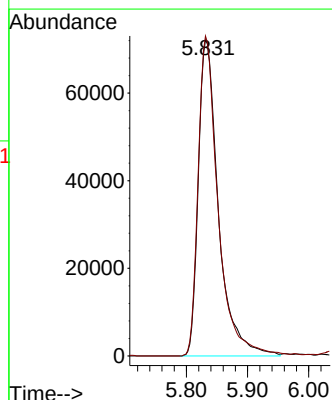
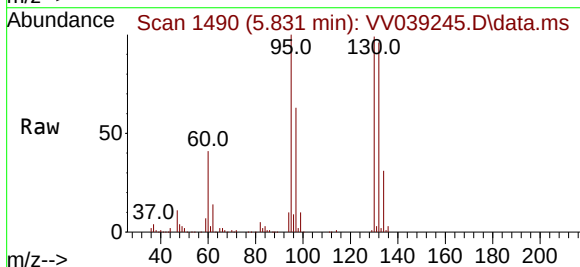
Acq: 03 Oct 2025 13:07

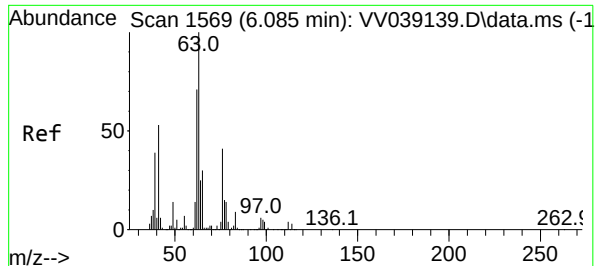
Tgt Ion:130 Resp: 164874

Ion Ratio Lower Upper

130 100

95 101.2 0.0 199.2





#45

1,2-Dichloropropane

Concen: 19.912 ug/l

RT: 6.088 min Scan# 1569

Delta R.T. 0.003 min

Lab File: VV039245.D

Acq: 03 Oct 2025 13:07

Instrument :

MSVOA_V

ClientSampleId :

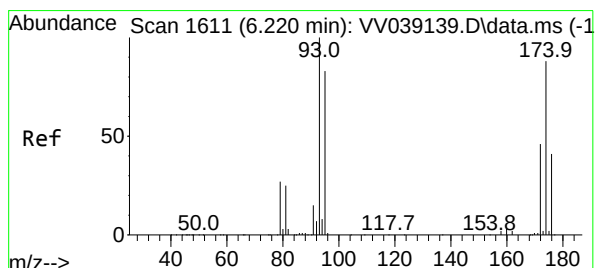
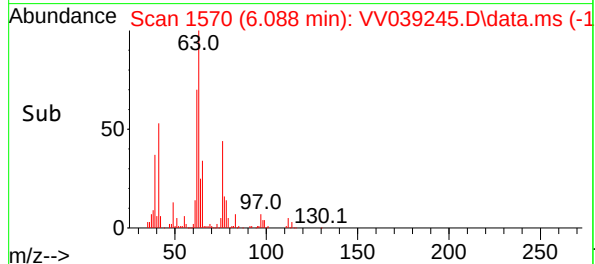
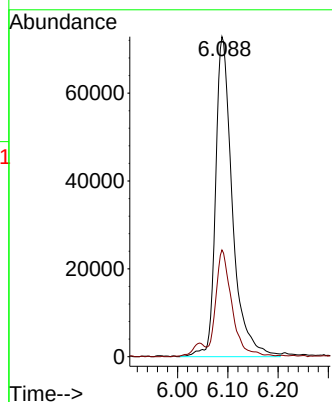
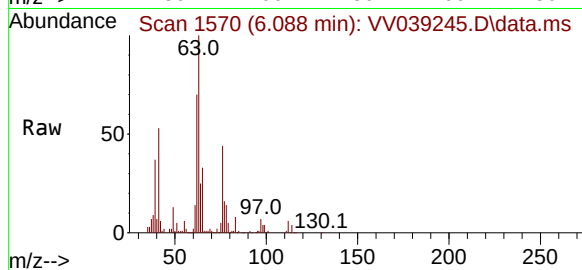
VV1003WBS01

Tgt Ion: 63 Resp: 169707

Ion Ratio Lower Upper

63 100

65 33.1 23.7 35.5



#46

Dibromomethane

Concen: 19.764 ug/l

RT: 6.227 min Scan# 1613

Delta R.T. 0.006 min

Lab File: VV039245.D

Acq: 03 Oct 2025 13:07

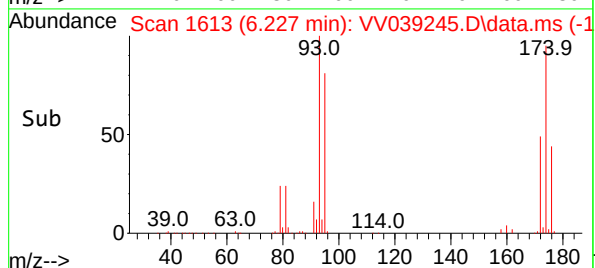
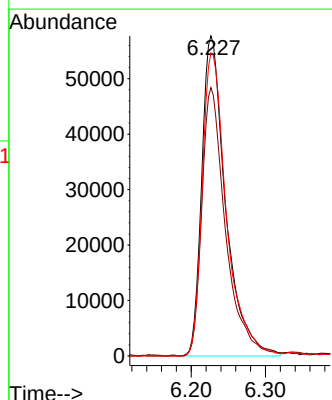
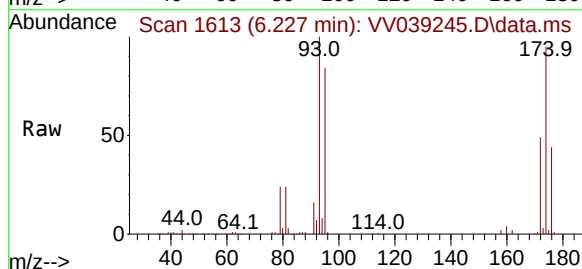
Tgt Ion: 93 Resp: 128921

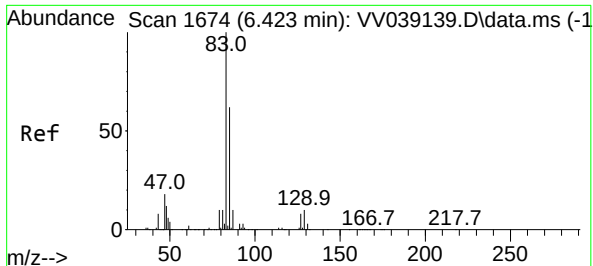
Ion Ratio Lower Upper

93 100

95 83.2 65.5 98.3

174 96.1 69.0 103.4





#47

Bromodichloromethane

Concen: 19.302 ug/l

RT: 6.426 min Scan# 1

Delta R.T. 0.003 min

Lab File: VV039245.D

Acq: 03 Oct 2025 13:07

Instrument :

MSVOA_V

ClientSampleId :

VV1003WBS01

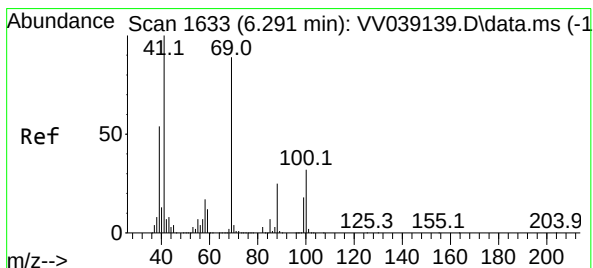
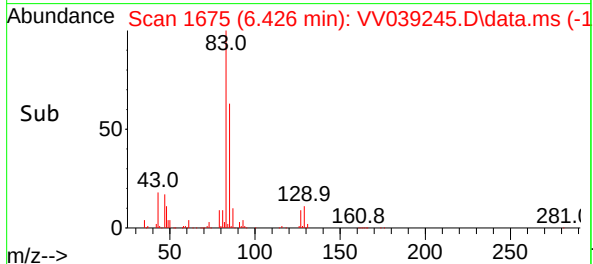
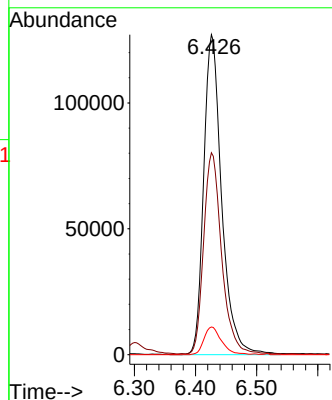
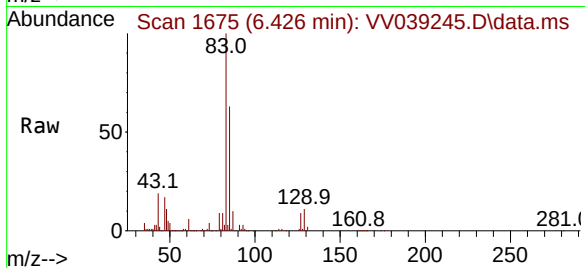
Tgt Ion: 83 Resp: 260291

Ion Ratio Lower Upper

83 100

85 62.8 49.7 74.5

127 8.6 6.6 9.8



#48

Methyl methacrylate

Concen: 18.186 ug/l

RT: 6.301 min Scan# 1636

Delta R.T. 0.010 min

Lab File: VV039245.D

Acq: 03 Oct 2025 13:07

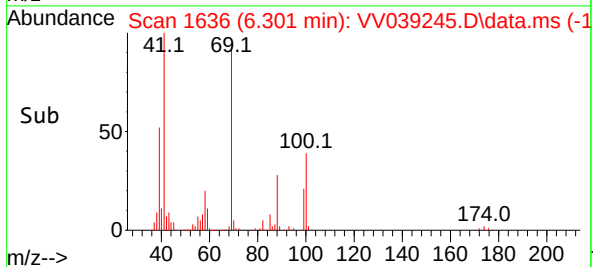
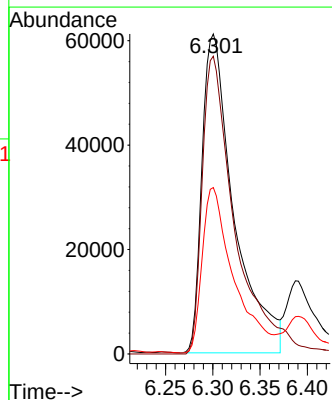
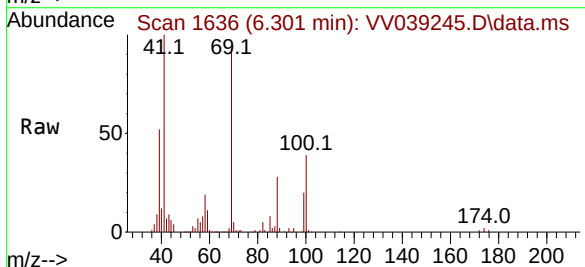
Tgt Ion: 41 Resp: 143613

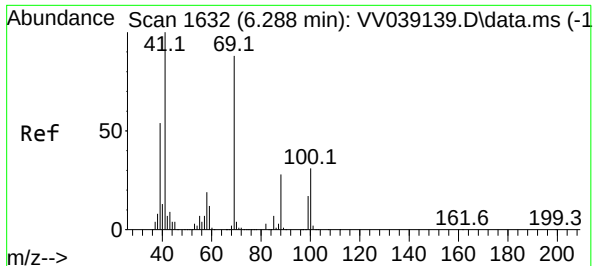
Ion Ratio Lower Upper

41 100

69 96.4 72.4 108.6

39 51.1 42.5 63.7





#49

1,4-Dioxane

Concen: 379.726 ug/l

RT: 6.294 min Scan# 1

Delta R.T. 0.006 min

Lab File: VV039245.D

Acq: 03 Oct 2025 13:07

Instrument :

MSVOA_V

ClientSampleId :

VV1003WBS01

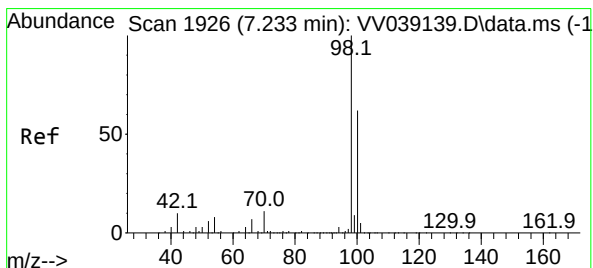
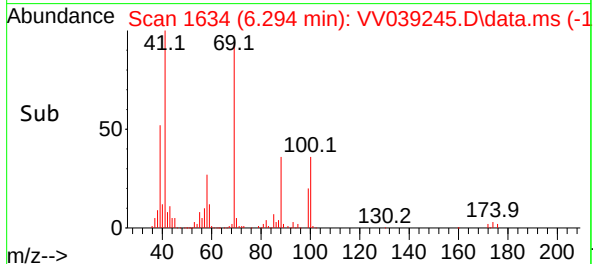
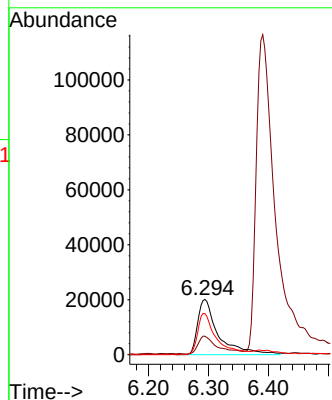
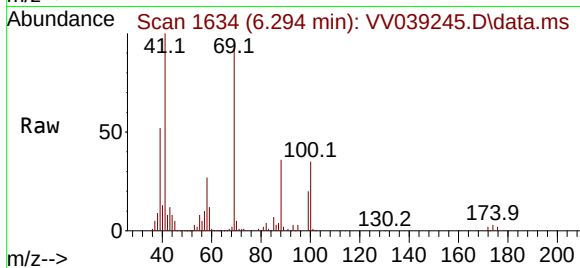
Tgt Ion: 88 Resp: 48393

Ion Ratio Lower Upper

88 100

43 30.6 25.1 37.7

58 67.2 53.6 80.4



#50

Toluene-d8

Concen: 45.791 ug/l

RT: 7.236 min Scan# 1927

Delta R.T. 0.003 min

Lab File: VV039245.D

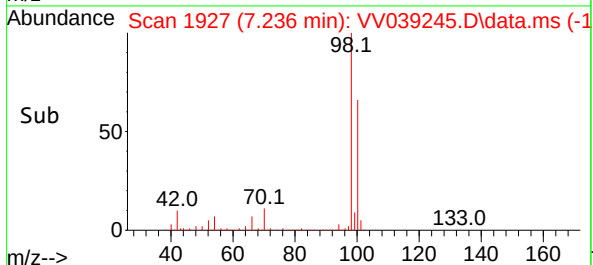
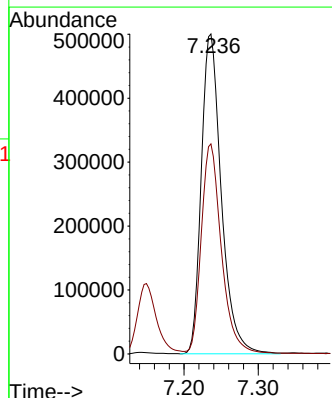
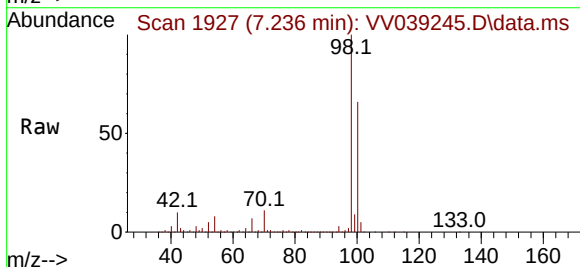
Acq: 03 Oct 2025 13:07

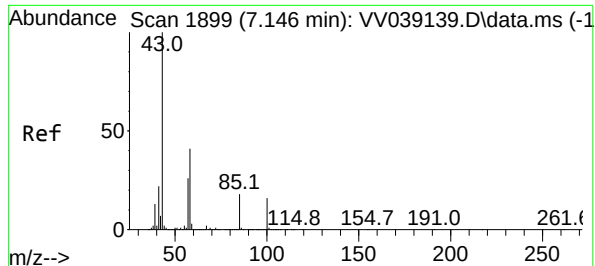
Tgt Ion: 98 Resp: 936652

Ion Ratio Lower Upper

98 100

100 65.5 52.2 78.2

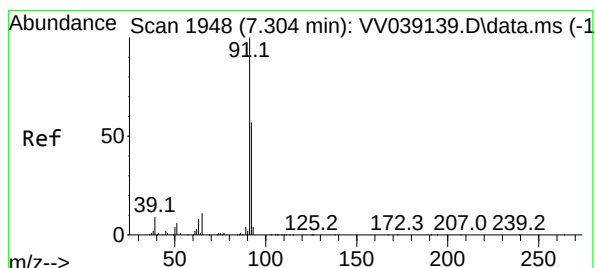
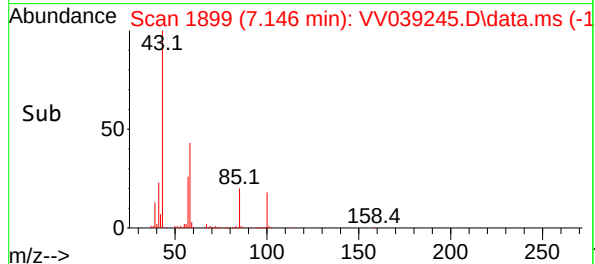
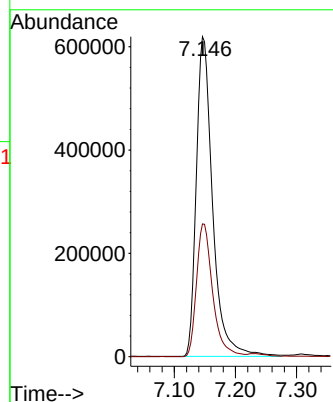
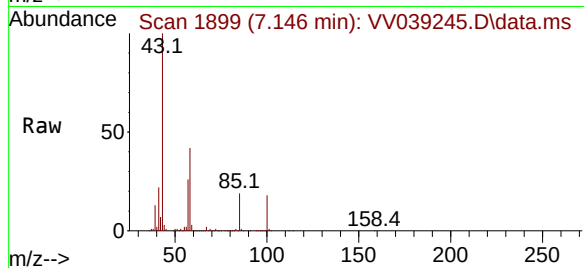




#51
4-Methyl-2-Pentanone
Concen: 100.178 ug/l
RT: 7.146 min Scan# 1899
Delta R.T. -0.000 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

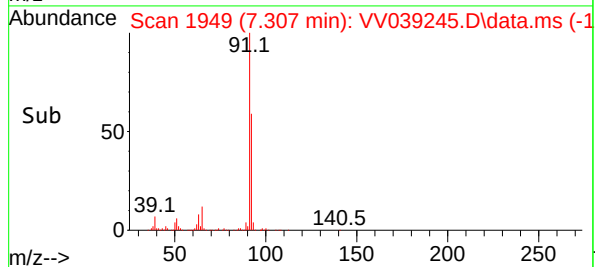
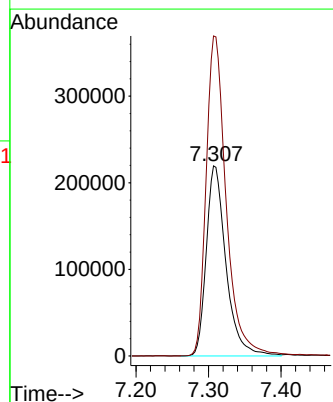
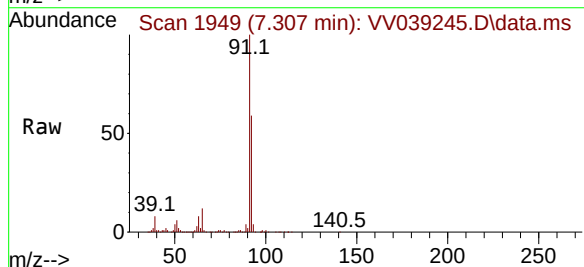
Instrument :
MSVOA_V
ClientSampleId :
VV1003WBS01

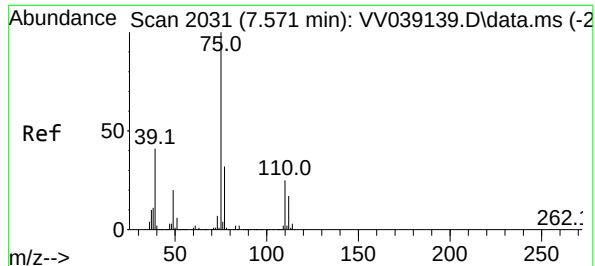
Tgt Ion: 43 Resp: 1148145
Ion Ratio Lower Upper
43 100
58 41.2 32.3 48.5



#52
Toluene
Concen: 20.916 ug/l
RT: 7.307 min Scan# 1949
Delta R.T. 0.003 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Tgt Ion: 92 Resp: 415826
Ion Ratio Lower Upper
92 100
91 171.2 139.2 208.8





#53

t-1,3-Dichloropropene

Concen: 21.080 ug/l

RT: 7.574 min Scan# 2031

Delta R.T. 0.003 min

Lab File: VV039245.D

Acq: 03 Oct 2025 13:07

Instrument :

MSVOA_V

ClientSampleId :

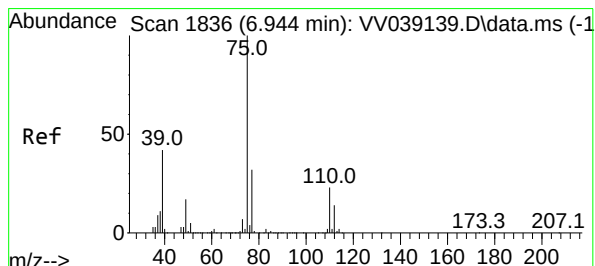
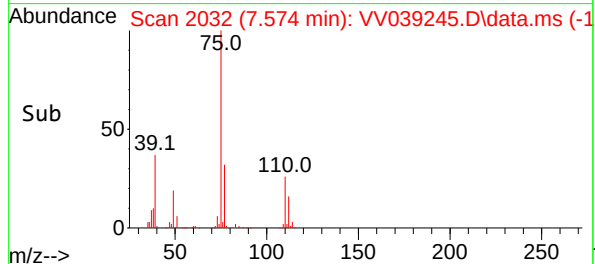
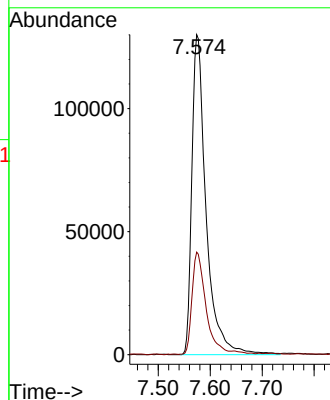
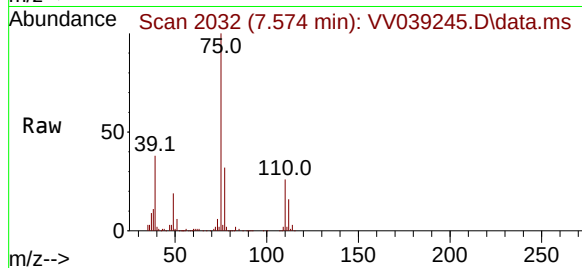
VV1003WBS01

Tgt Ion: 75 Resp: 247740

Ion Ratio Lower Upper

75 100

77 31.9 25.9 38.9



#54

cis-1,3-Dichloropropene

Concen: 20.933 ug/l

RT: 6.950 min Scan# 1838

Delta R.T. 0.006 min

Lab File: VV039245.D

Acq: 03 Oct 2025 13:07

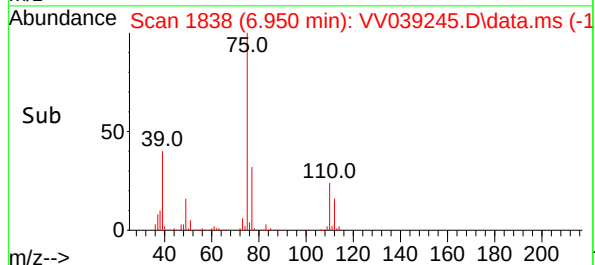
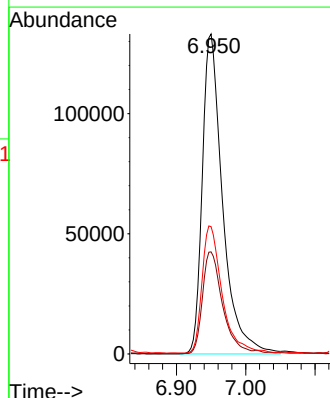
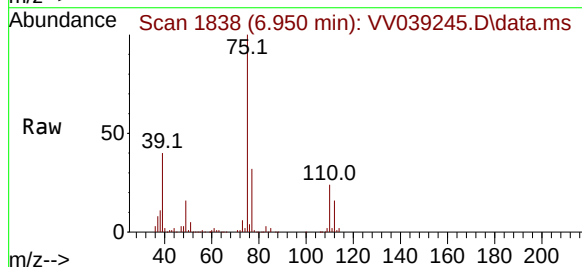
Tgt Ion: 75 Resp: 271589

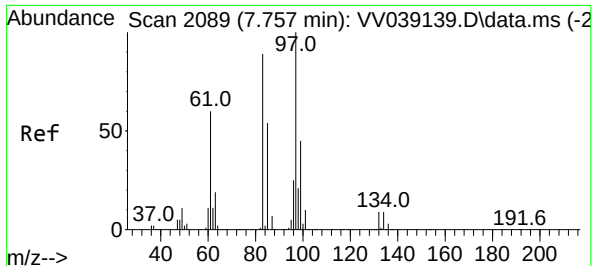
Ion Ratio Lower Upper

75 100

77 31.7 25.5 38.3

39 39.5 33.8 50.6





#55

1,1,2-Trichloroethane

Concen: 19.974 ug/l

RT: 7.760 min Scan# 2089

Delta R.T. 0.003 min

Lab File: VV039245.D

Acq: 03 Oct 2025 13:07

Instrument :

MSVOA_V

ClientSampleId :

VV1003WBS01

Tgt Ion: 97 Resp: 178056

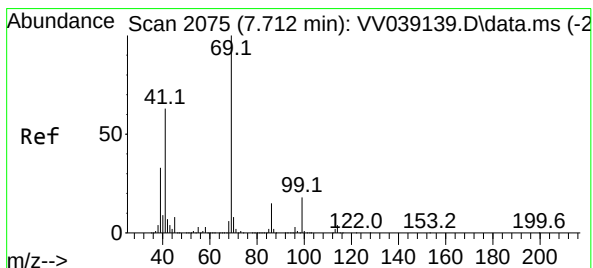
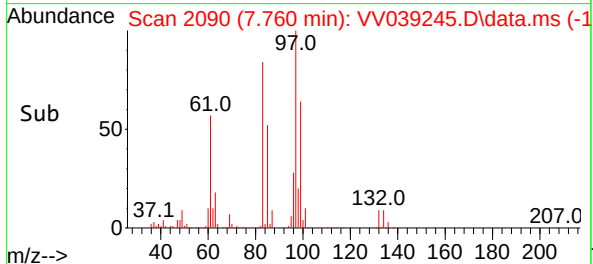
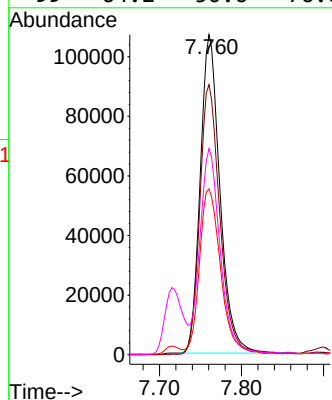
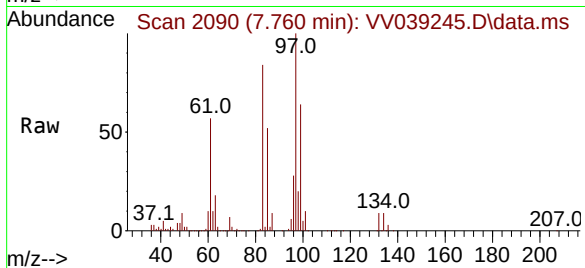
Ion Ratio Lower Upper

97 100

83 84.6 71.1 106.7

85 51.7 44.6 67.0

99 64.2 50.6 76.0



#56

Ethyl methacrylate

Concen: 20.572 ug/l

RT: 7.715 min Scan# 2076

Delta R.T. 0.003 min

Lab File: VV039245.D

Acq: 03 Oct 2025 13:07

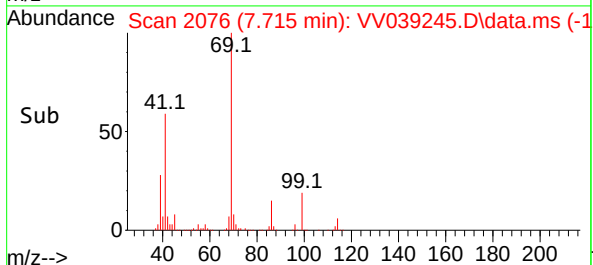
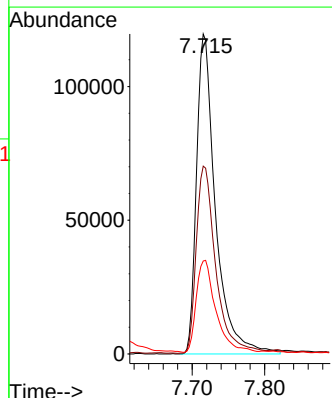
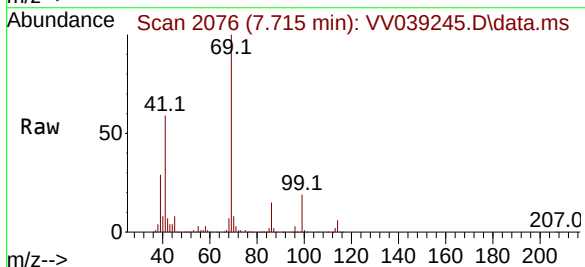
Tgt Ion: 69 Resp: 217780

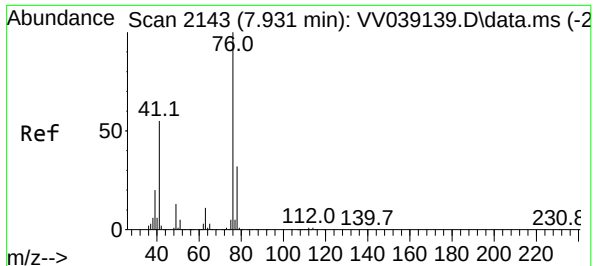
Ion Ratio Lower Upper

69 100

41 60.1 50.7 76.1

39 29.5 26.0 39.0





#57

1,3-Dichloropropane

Concen: 20.470 ug/l

RT: 7.934 min Scan# 2143

Delta R.T. 0.003 min

Lab File: VV039245.D

Acq: 03 Oct 2025 13:07

Instrument :

MSVOA_V

ClientSampleId :

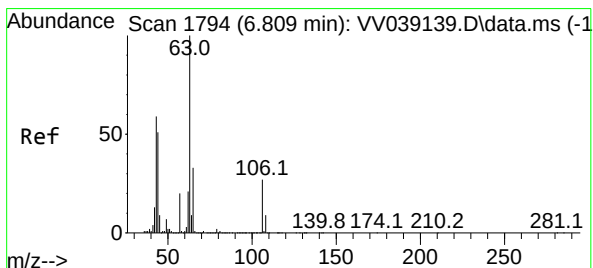
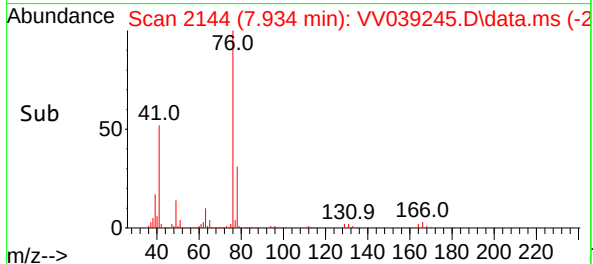
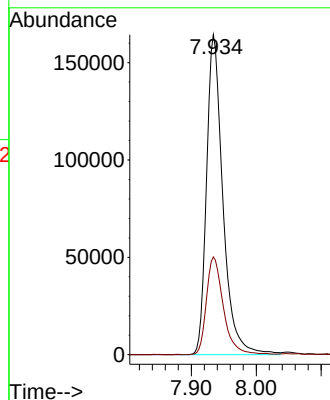
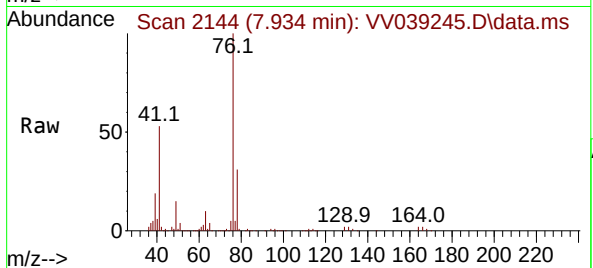
VV1003WBS01

Tgt Ion: 76 Resp: 287981

Ion Ratio Lower Upper

76 100

78 31.6 26.1 39.1



#58

2-Chloroethyl Vinyl ether

Concen: 86.041 ug/l

RT: 6.812 min Scan# 1795

Delta R.T. 0.003 min

Lab File: VV039245.D

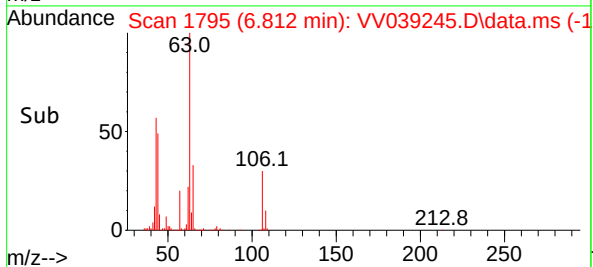
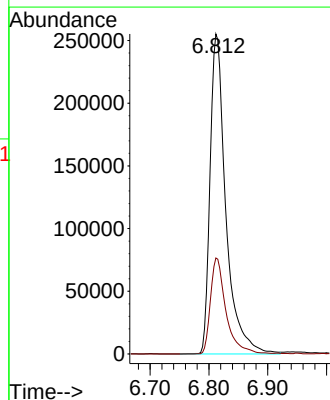
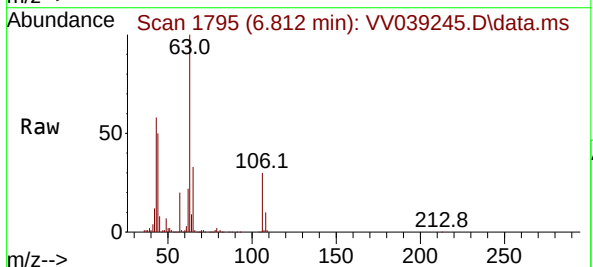
Acq: 03 Oct 2025 13:07

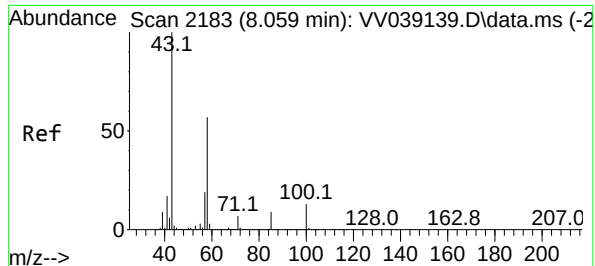
Tgt Ion: 63 Resp: 475072

Ion Ratio Lower Upper

63 100

106 29.5 22.1 33.1





#59

2-Hexanone

Concen: 91.844 ug/l

RT: 8.062 min Scan# 2184

Delta R.T. 0.003 min

Lab File: VV039245.D

Acq: 03 Oct 2025 13:07

Instrument :

MSVOA_V

ClientSampleId :

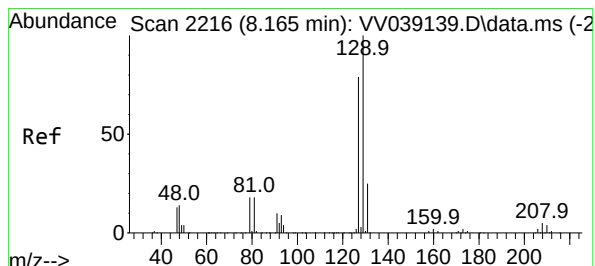
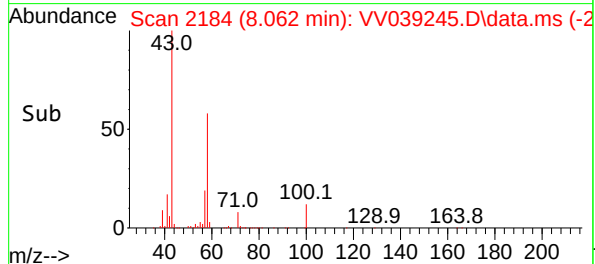
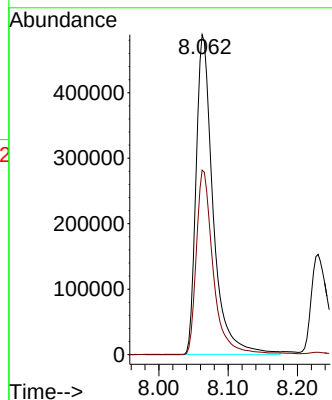
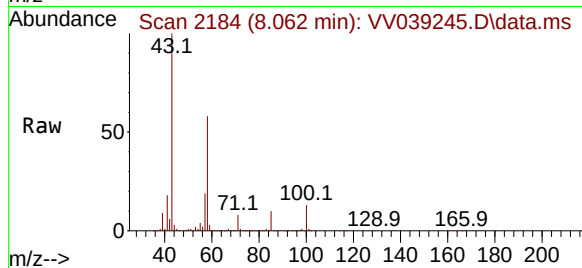
VV1003WBS01

Tgt Ion: 43 Resp: 835938

Ion Ratio Lower Upper

43 100

58 57.2 28.3 85.0



#60

Dibromochloromethane

Concen: 20.720 ug/l

RT: 8.169 min Scan# 2217

Delta R.T. 0.003 min

Lab File: VV039245.D

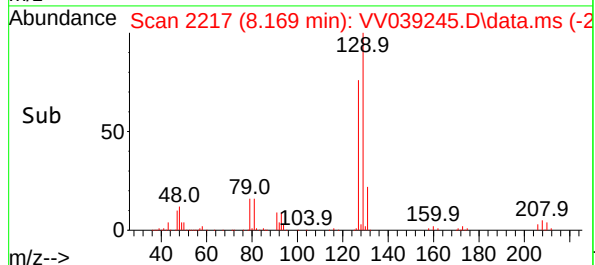
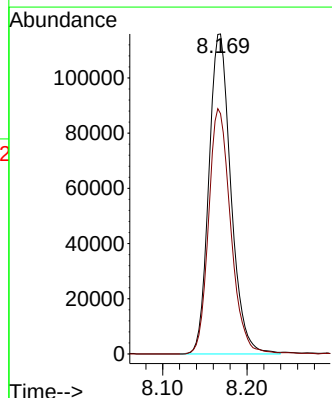
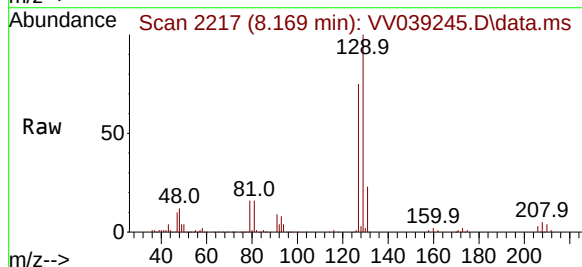
Acq: 03 Oct 2025 13:07

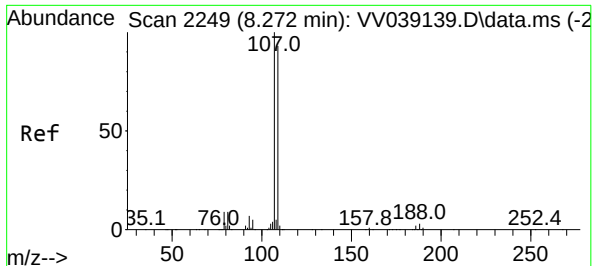
Tgt Ion: 129 Resp: 210459

Ion Ratio Lower Upper

129 100

127 76.9 39.3 117.9





#61

1,2-Dibromoethane

Concen: 20.559 ug/l

RT: 8.275 min Scan# 21

Delta R.T. 0.003 min

Lab File: VV039245.D

Acq: 03 Oct 2025 13:07

Instrument :

MSVOA_V

ClientSampleId :

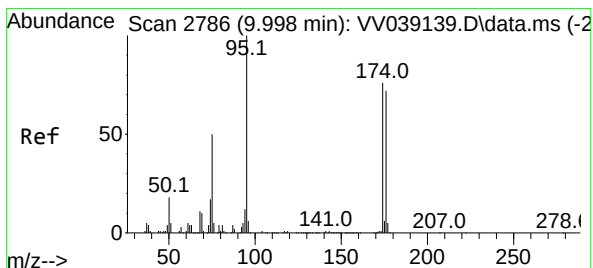
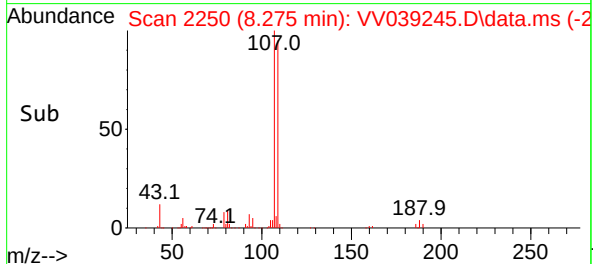
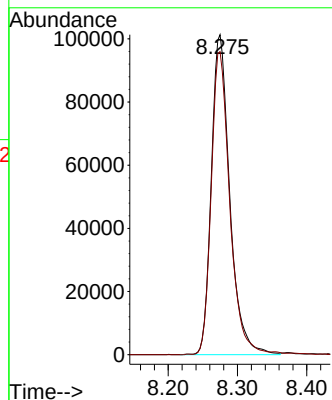
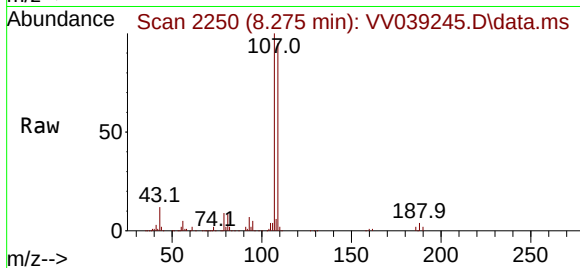
VV1003WBS01

Tgt Ion:107 Resp: 187426

Ion Ratio Lower Upper

107 100

109 94.5 74.6 112.0



#62

4-Bromofluorobenzene

Concen: 53.433 ug/l

RT: 9.998 min Scan# 2786

Delta R.T. -0.000 min

Lab File: VV039245.D

Acq: 03 Oct 2025 13:07

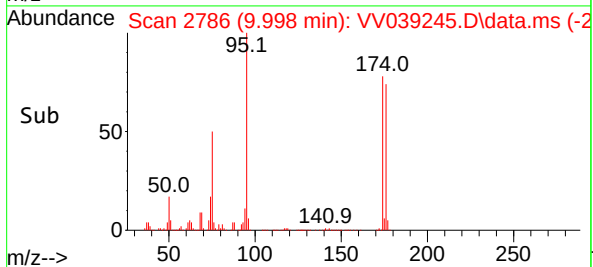
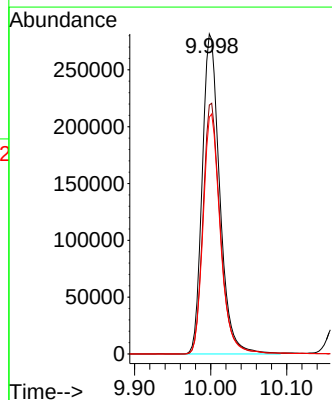
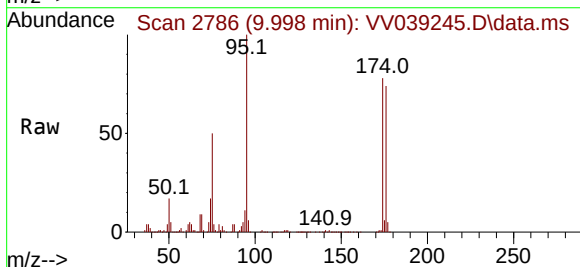
Tgt Ion: 95 Resp: 449945

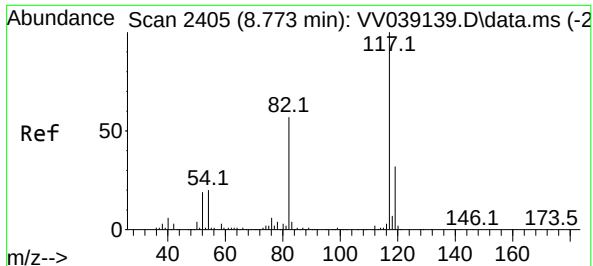
Ion Ratio Lower Upper

95 100

174 77.5 0.0 150.4

176 74.0 0.0 144.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 8.773 min Scan# 2405

Delta R.T. 0.000 min

Lab File: VV039245.D

Acq: 03 Oct 2025 13:07

Instrument :

MSVOA_V

ClientSampleId :

VV1003WBS01

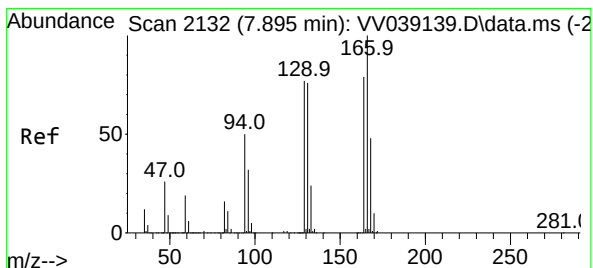
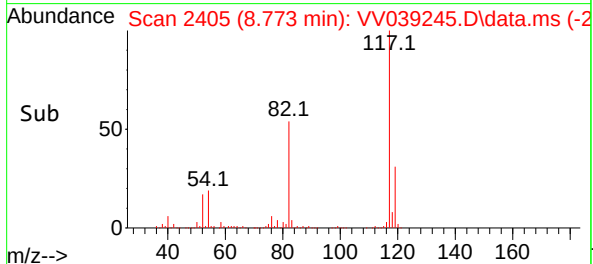
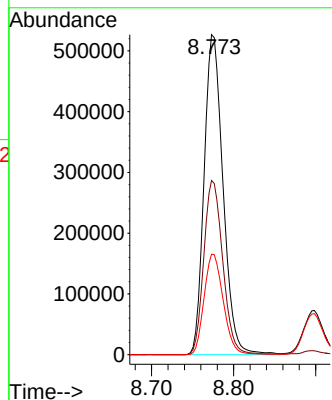
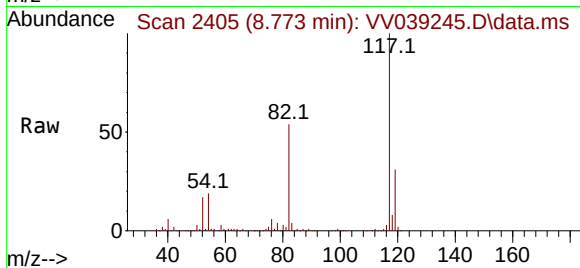
Tgt Ion:117 Resp: 845304

Ion Ratio Lower Upper

117 100

82 54.4 45.4 68.2

119 31.4 25.6 38.4



#64

Tetrachloroethene

Concen: 20.312 ug/l

RT: 7.895 min Scan# 2132

Delta R.T. -0.000 min

Lab File: VV039245.D

Acq: 03 Oct 2025 13:07

Tgt Ion:164 Resp: 143810

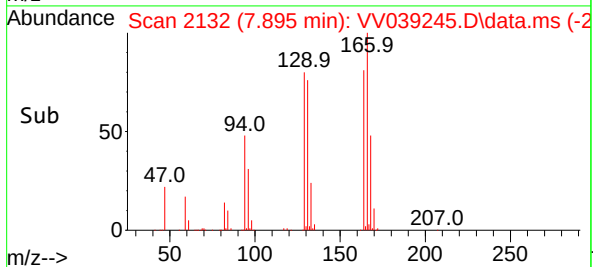
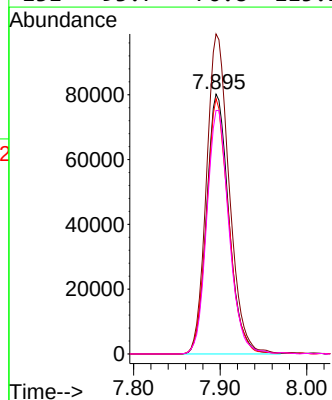
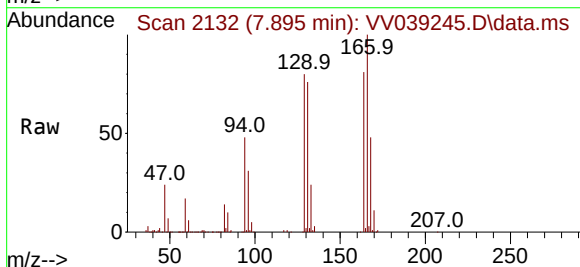
Ion Ratio Lower Upper

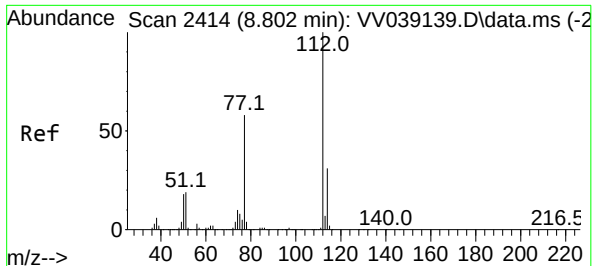
164 100

166 123.1 101.6 152.4

129 98.3 78.5 117.7

131 93.7 76.8 115.2





#65

Chlorobenzene

Concen: 20.230 ug/l

RT: 8.805 min Scan# 2414

Delta R.T. 0.003 min

Lab File: VV039245.D

Acq: 03 Oct 2025 13:07

Instrument :

MSVOA_V

ClientSampleId :

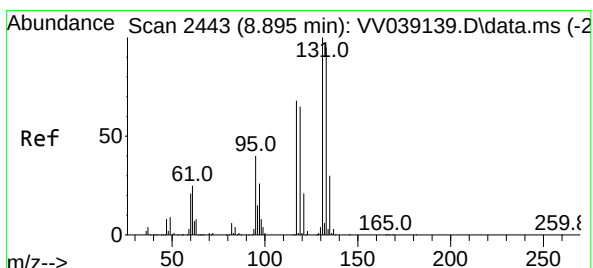
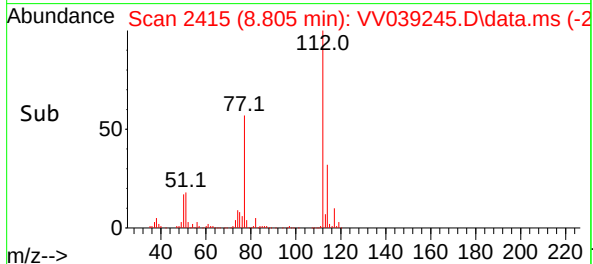
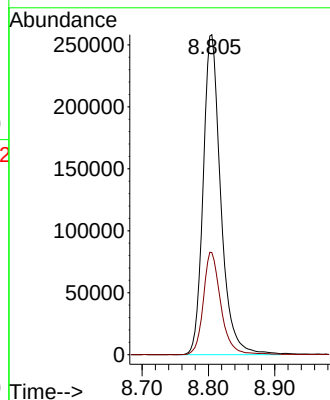
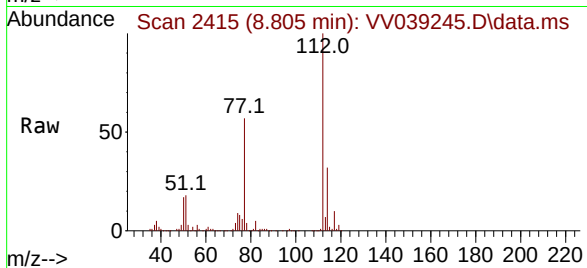
VV1003WBS01

Tgt Ion:112 Resp: 476325

Ion Ratio Lower Upper

112 100

114 31.9 24.6 37.0



#66

1,1,1,2-Tetrachloroethane

Concen: 20.263 ug/l

RT: 8.898 min Scan# 2444

Delta R.T. 0.003 min

Lab File: VV039245.D

Acq: 03 Oct 2025 13:07

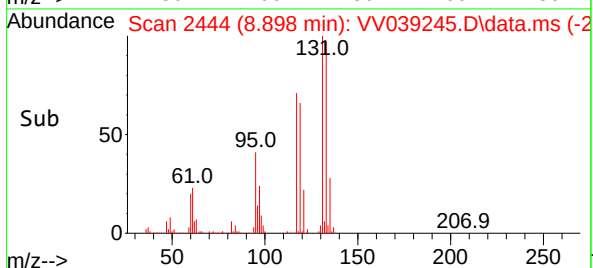
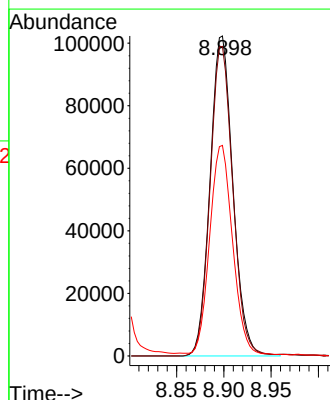
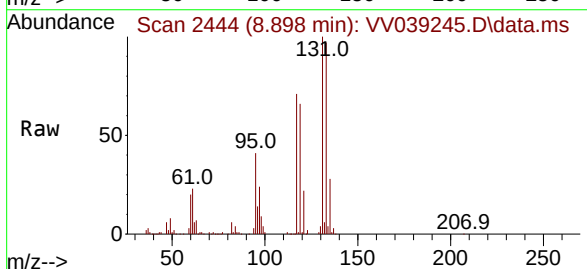
Tgt Ion:131 Resp: 172386

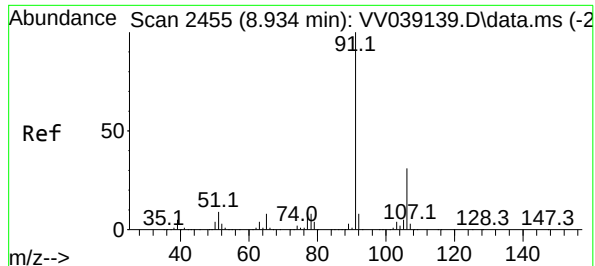
Ion Ratio Lower Upper

131 100

133 96.0 47.3 141.8

119 65.5 33.3 99.8





#67

Ethyl Benzene

Concen: 20.218 ug/l

RT: 8.937 min Scan# 2455

Delta R.T. 0.003 min

Lab File: VV039245.D

Acq: 03 Oct 2025 13:07

Instrument :

MSVOA_V

ClientSampleId :

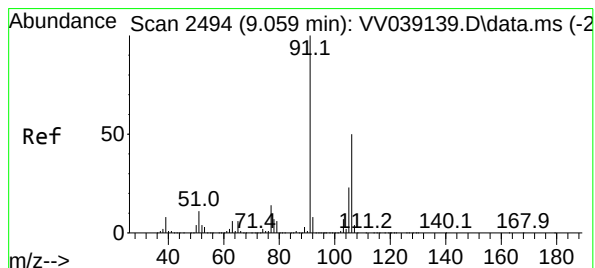
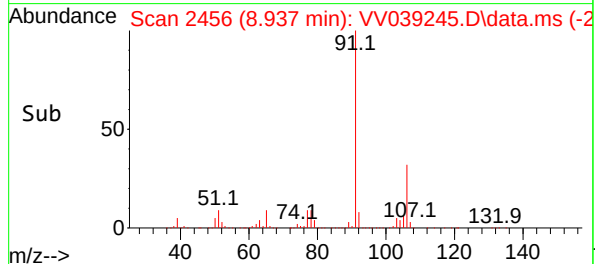
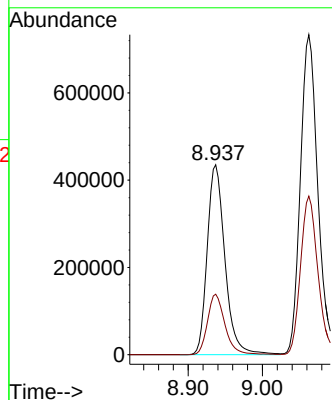
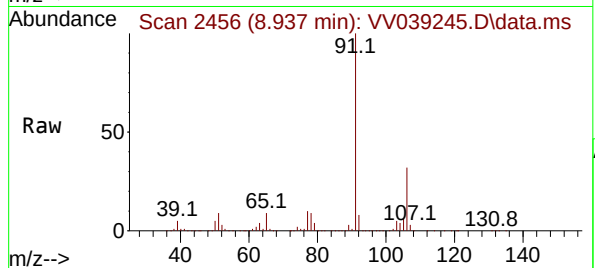
VV1003WBS01

Tgt Ion: 91 Resp: 720606

Ion Ratio Lower Upper

91 100

106 31.8 24.6 37.0



#68

m/p-Xylenes

Concen: 43.093 ug/l

RT: 9.062 min Scan# 2495

Delta R.T. 0.003 min

Lab File: VV039245.D

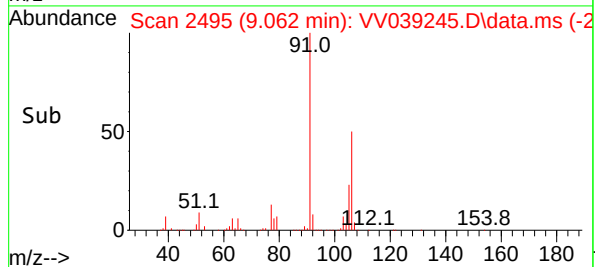
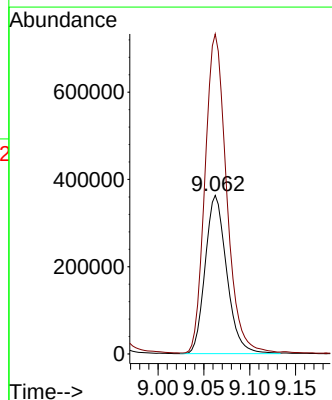
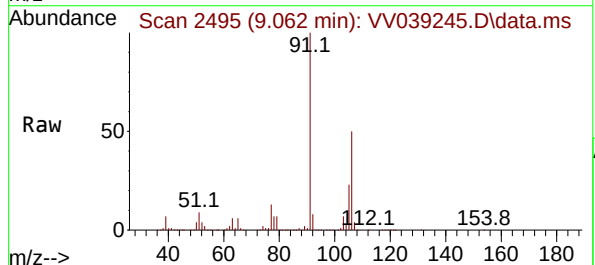
Acq: 03 Oct 2025 13:07

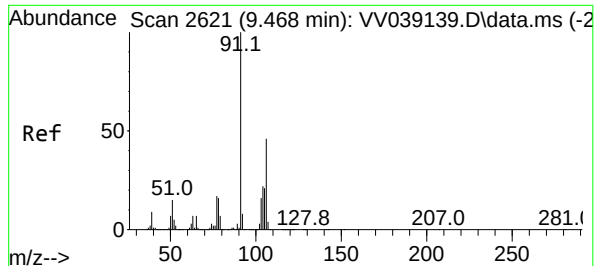
Tgt Ion: 106 Resp: 592787

Ion Ratio Lower Upper

106 100

91 201.4 162.5 243.7





#69

o-Xylene

Concen: 21.510 ug/l

RT: 9.468 min Scan# 2621

Delta R.T. -0.000 min

Lab File: VV039245.D

Acq: 03 Oct 2025 13:07

Instrument :

MSVOA_V

ClientSampleId :

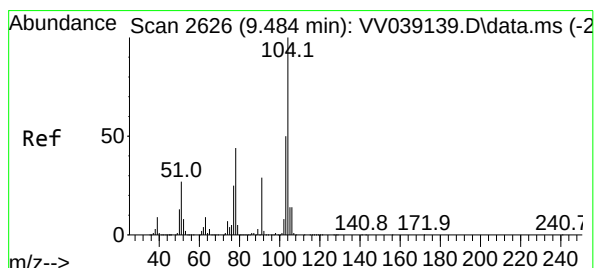
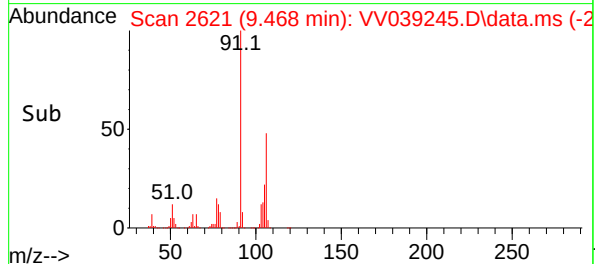
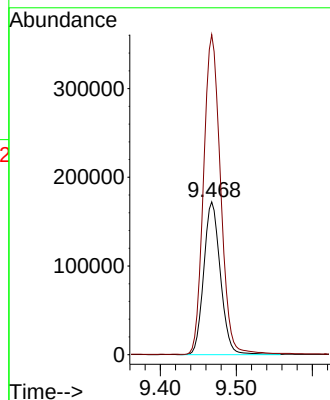
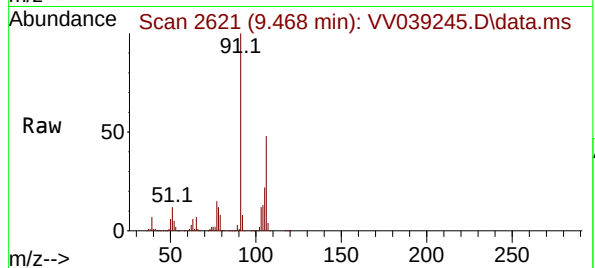
VV1003WBS01

Tgt Ion:106 Resp: 261997

Ion Ratio Lower Upper

106 100

91 213.6 109.1 327.3



#70

Styrene

Concen: 19.731 ug/l

RT: 9.487 min Scan# 2627

Delta R.T. 0.003 min

Lab File: VV039245.D

Acq: 03 Oct 2025 13:07

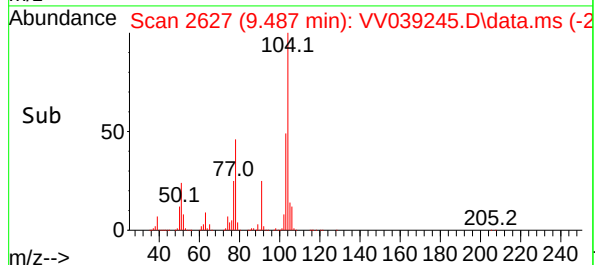
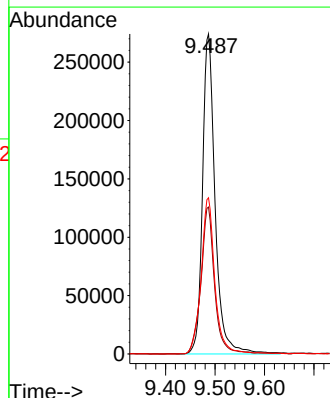
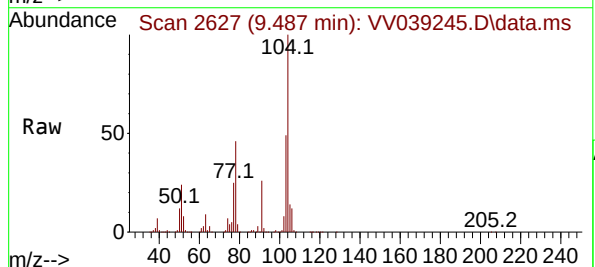
Tgt Ion:104 Resp: 486013

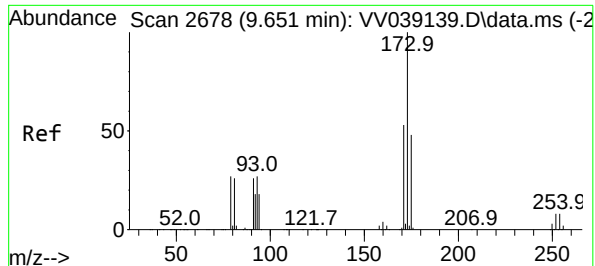
Ion Ratio Lower Upper

104 100

78 49.4 39.8 59.6

103 53.1 43.4 65.2

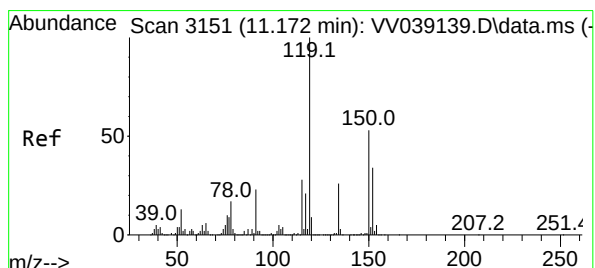
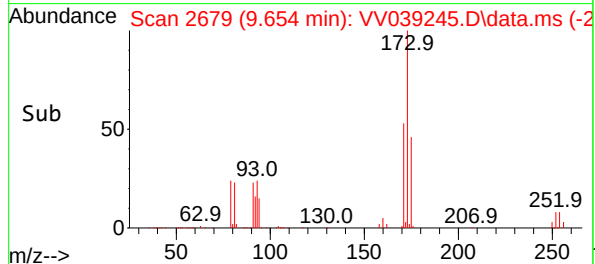
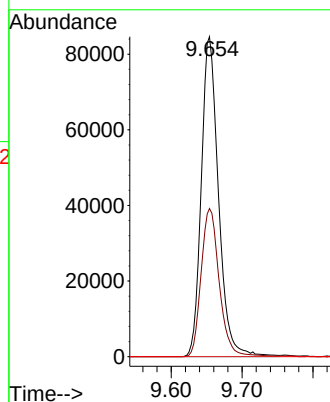
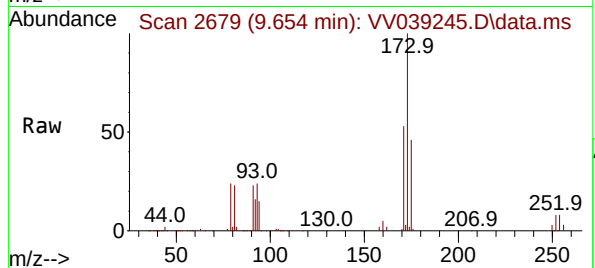




#71
Bromoform
Concen: 21.480 ug/l
RT: 9.654 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

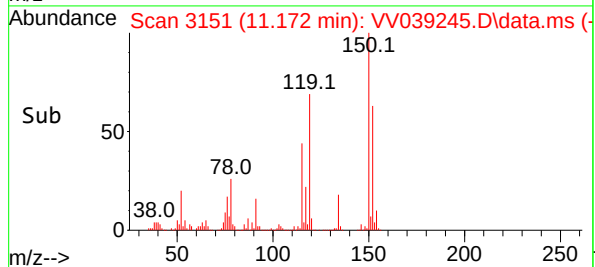
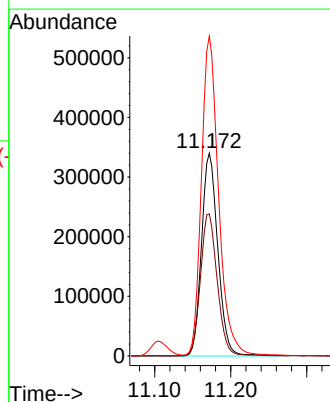
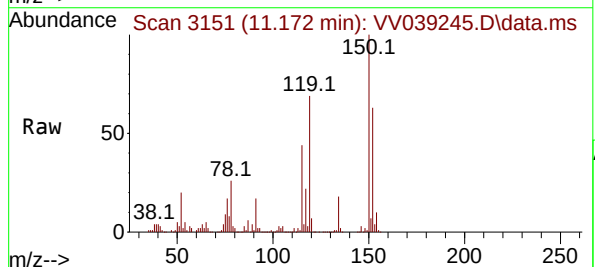
Instrument :
MSVOA_V
ClientSampleId :
VV1003WBS01

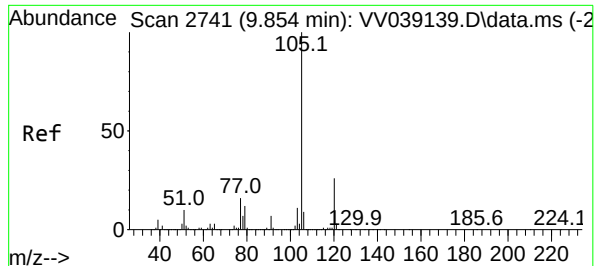
Tgt Ion:173 Resp: 142741
Ion Ratio Lower Upper
173 100
175 48.6 23.9 71.7
254 0.0 0.1 0.1#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3151
Delta R.T. -0.000 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Tgt Ion:152 Resp: 506399
Ion Ratio Lower Upper
152 100
115 72.0 44.8 134.4
150 166.3 0.0 353.8





#73

Isopropylbenzene

Concen: 19.881 ug/l

RT: 9.853 min Scan# 21

Delta R.T. -0.000 min

Lab File: VV039245.D

Acq: 03 Oct 2025 13:07

Instrument :

MSVOA_V

ClientSampleId :

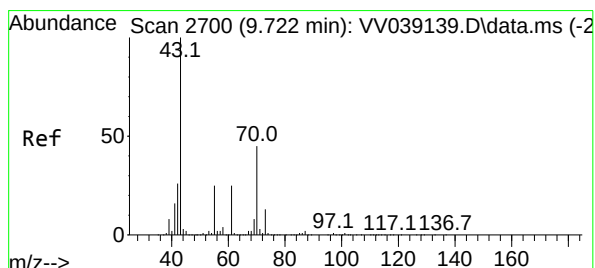
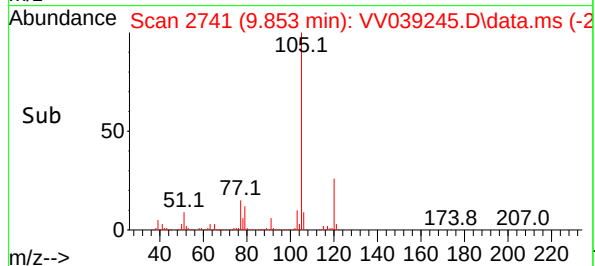
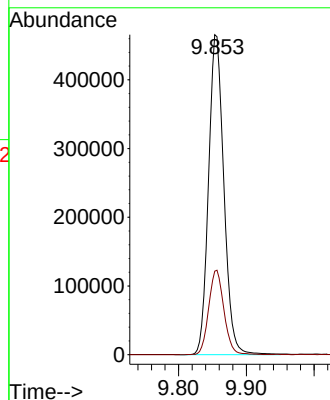
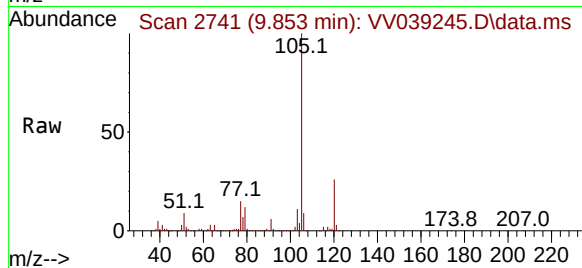
VV1003WBS01

Tgt Ion:105 Resp: 730232

Ion Ratio Lower Upper

105 100

120 26.3 13.1 39.1



#74

N-ethyl acetate

Concen: 18.957 ug/l

RT: 9.725 min Scan# 2701

Delta R.T. 0.003 min

Lab File: VV039245.D

Acq: 03 Oct 2025 13:07

Tgt Ion: 43 Resp: 277738

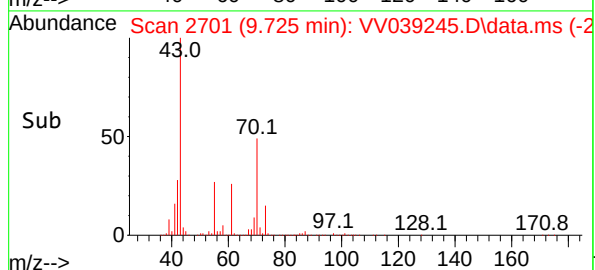
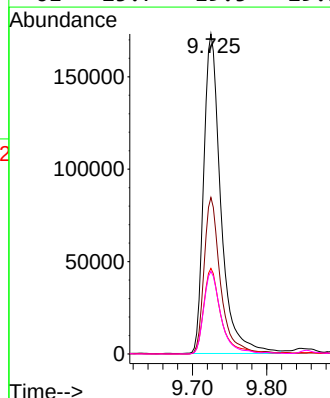
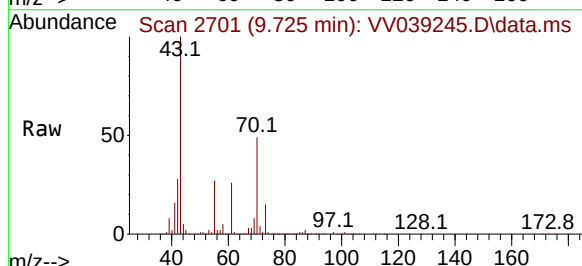
Ion Ratio Lower Upper

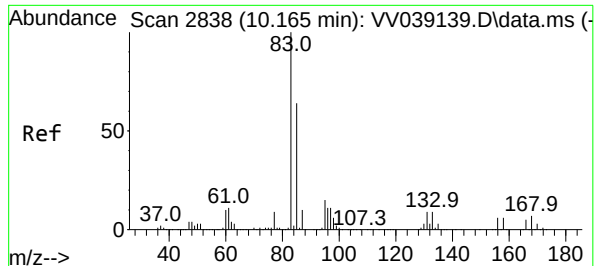
43 100

70 46.7 35.4 53.0

55 27.0 20.6 30.8

61 25.7 19.5 29.3





#75

1,1,2,2-Tetrachloroethane

Concen: 18.156 ug/l

RT: 10.165 min Scan# 2838

Delta R.T. -0.000 min

Lab File: VV039245.D

Acq: 03 Oct 2025 13:07

Instrument :

MSVOA_V

ClientSampleId :

VV1003WBS01

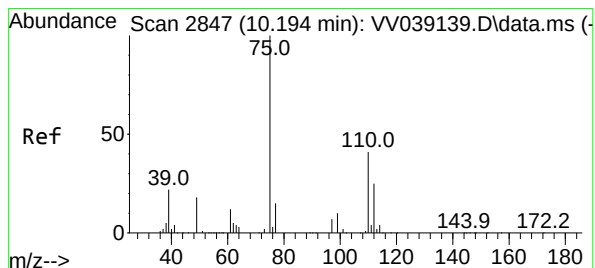
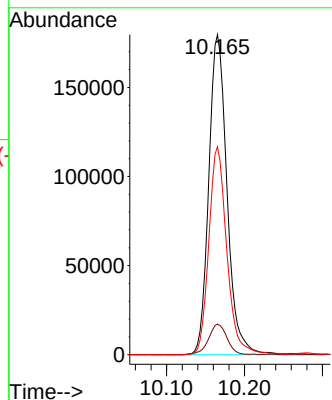
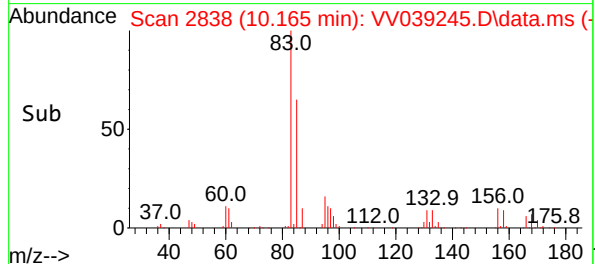
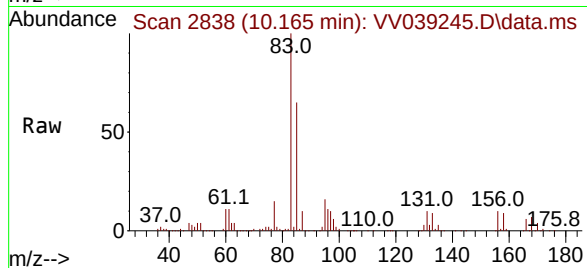
Tgt Ion: 83 Resp: 292188

Ion Ratio Lower Upper

83 100

131 9.7 4.5 13.7

85 64.2 31.9 95.9



#76

1,2,3-Trichloropropane

Concen: 18.111 ug/l

RT: 10.197 min Scan# 2848

Delta R.T. 0.003 min

Lab File: VV039245.D

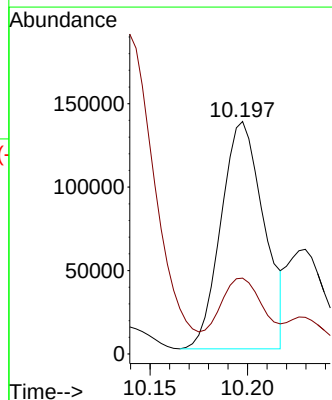
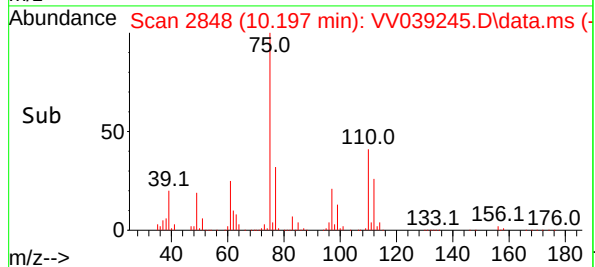
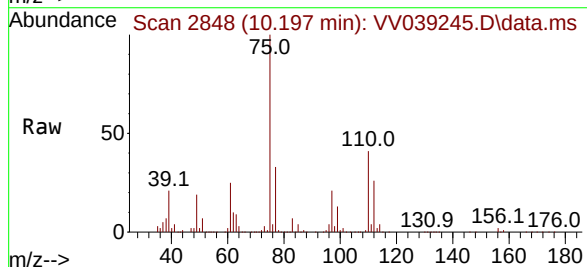
Acq: 03 Oct 2025 13:07

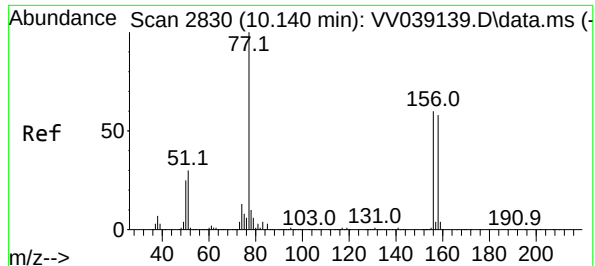
Tgt Ion: 75 Resp: 208818

Ion Ratio Lower Upper

75 100

77 21.2 11.3 33.8





#77

Bromobenzene

Concen: 20.761 ug/l

RT: 10.140 min Scan# 2830

Delta R.T. -0.000 min

Lab File: VV039245.D

Acq: 03 Oct 2025 13:07

Instrument :

MSVOA_V

ClientSampleId :

VV1003WBS01

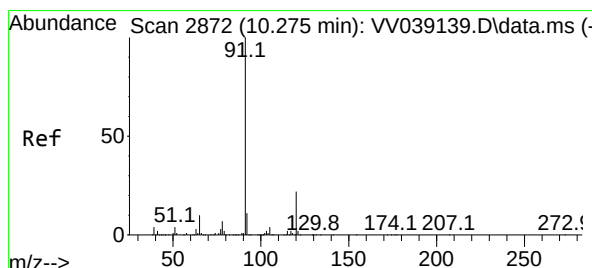
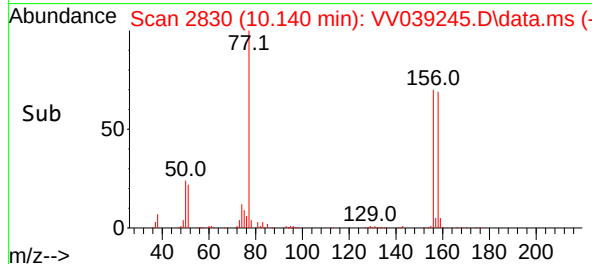
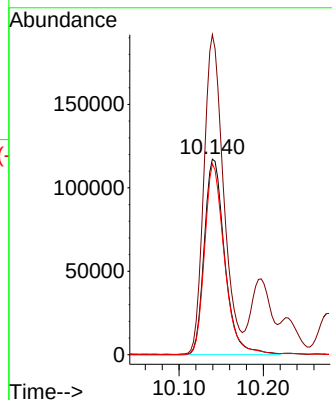
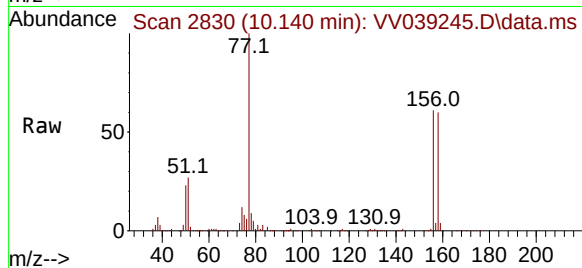
Tgt Ion:156 Resp: 197841

Ion Ratio Lower Upper

156 100

77 156.6 83.4 250.1

158 95.2 48.8 146.4



#78

n-propylbenzene

Concen: 19.466 ug/l

RT: 10.278 min Scan# 2873

Delta R.T. 0.003 min

Lab File: VV039245.D

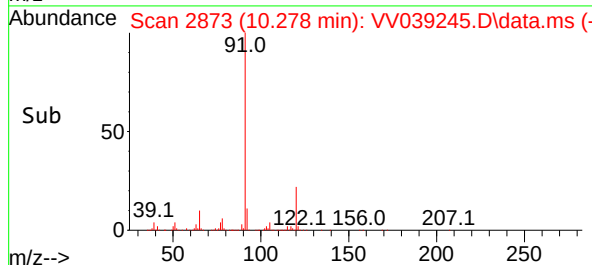
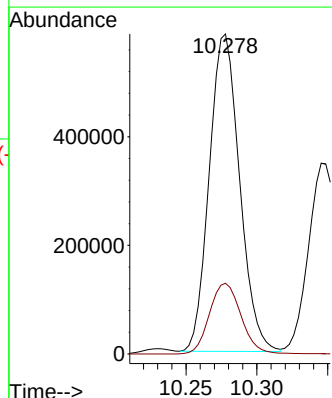
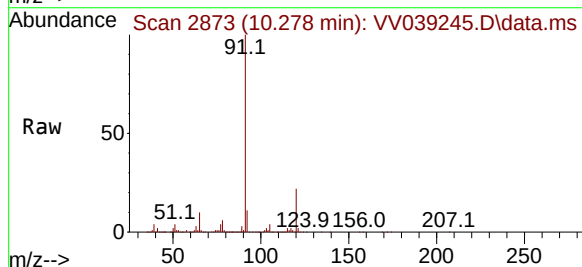
Acq: 03 Oct 2025 13:07

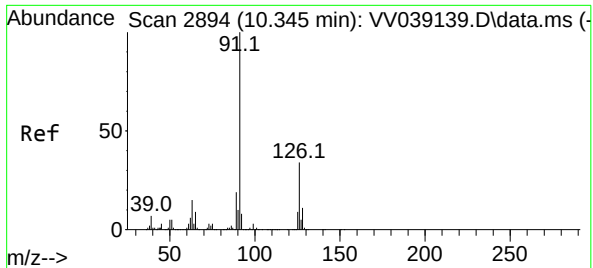
Tgt Ion: 91 Resp: 870650

Ion Ratio Lower Upper

91 100

120 23.2 11.1 33.3





#79

2-Chlorotoluene

Concen: 20.649 ug/l

RT: 10.345 min Scan# 2894

Delta R.T. -0.000 min

Lab File: VV039245.D

Acq: 03 Oct 2025 13:07

Instrument :

MSVOA_V

ClientSampleId :

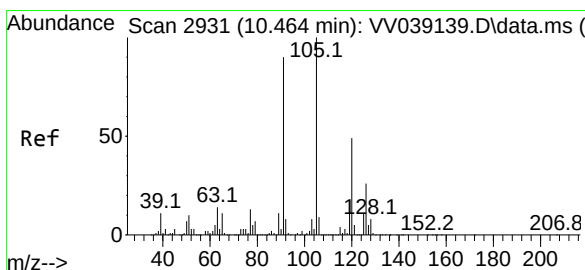
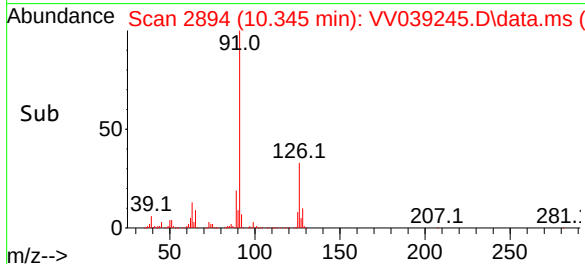
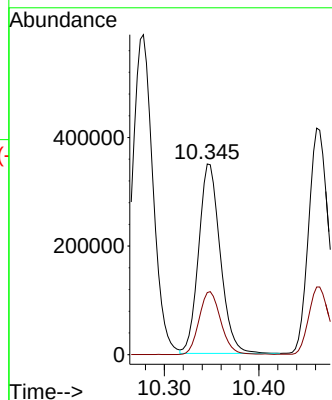
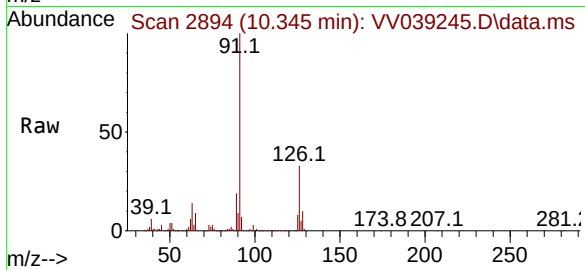
VV1003WBS01

Tgt Ion: 91 Resp: 552648

Ion Ratio Lower Upper

91 100

126 33.3 16.7 50.0



#80

1,3,5-Trimethylbenzene

Concen: 20.437 ug/l

RT: 10.464 min Scan# 2931

Delta R.T. -0.000 min

Lab File: VV039245.D

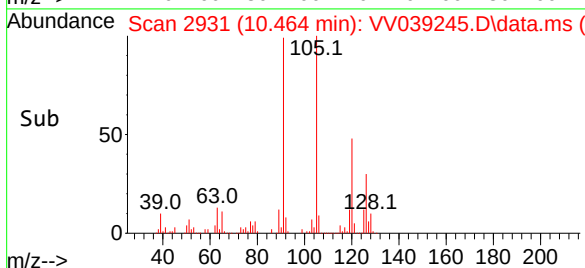
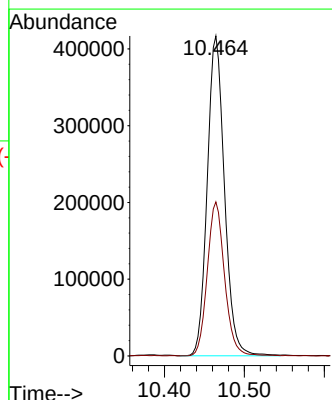
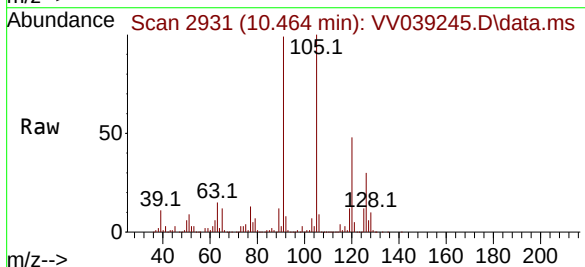
Acq: 03 Oct 2025 13:07

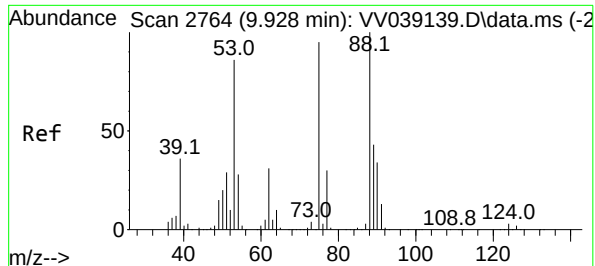
Tgt Ion: 105 Resp: 623906

Ion Ratio Lower Upper

105 100

120 48.3 24.3 72.8





#81

trans-1,4-Dichloro-2-butene

Concen: 18.975 ug/l

RT: 9.927 min Scan# 2764

Delta R.T. -0.000 min

Lab File: VV039245.D

Acq: 03 Oct 2025 13:07

Instrument :

MSVOA_V

ClientSampleId :

VV1003WBS01

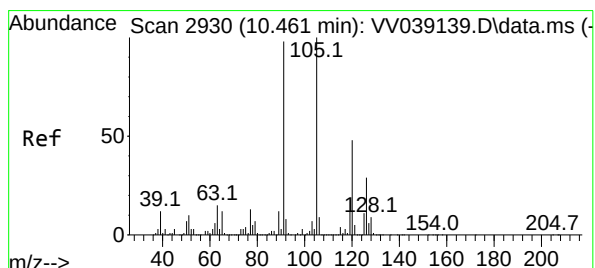
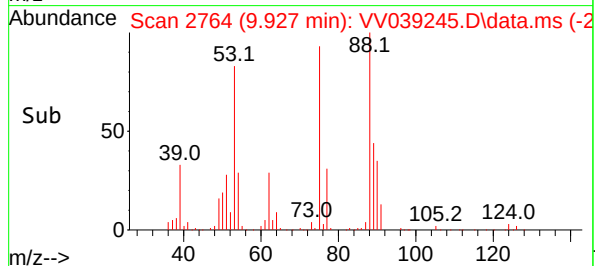
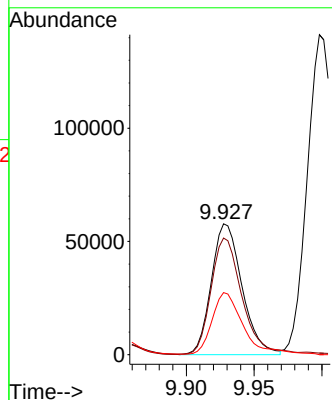
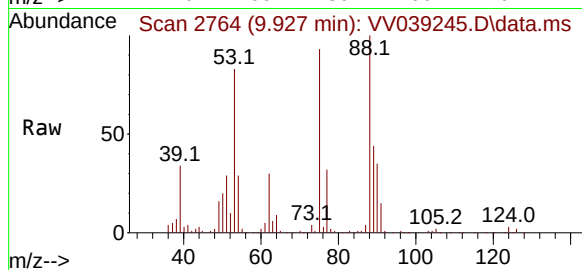
Tgt Ion: 75 Resp: 91130

Ion Ratio Lower Upper

75 100

53 89.3 72.5 108.7

89 48.4 37.2 55.8



#82

4-Chlorotoluene

Concen: 20.544 ug/l

RT: 10.461 min Scan# 2930

Delta R.T. -0.000 min

Lab File: VV039245.D

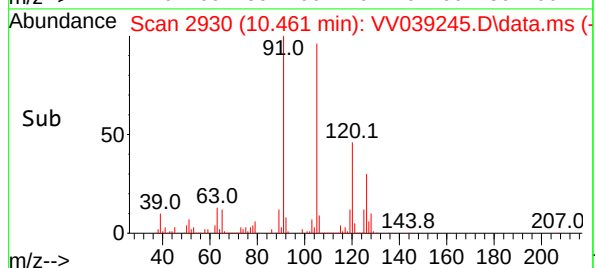
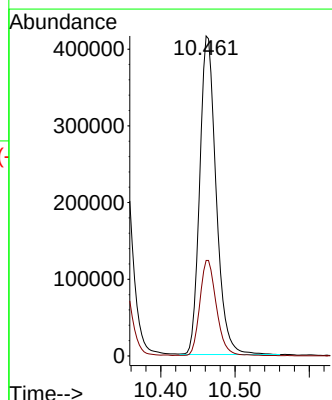
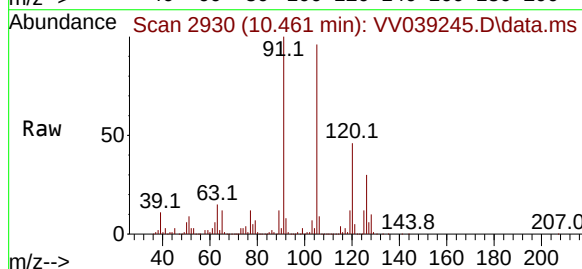
Acq: 03 Oct 2025 13:07

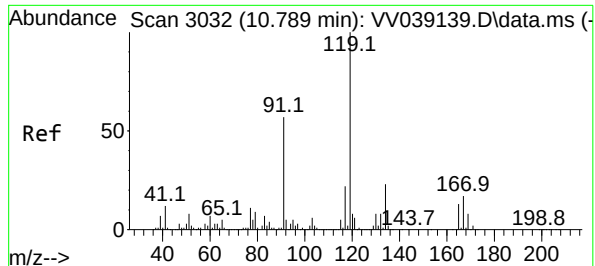
Tgt Ion: 91 Resp: 637564

Ion Ratio Lower Upper

91 100

126 30.1 14.5 43.6





#83

tert-Butylbenzene

Concen: 19.264 ug/l

RT: 10.789 min Scan# 3032

Delta R.T. -0.000 min

Lab File: VV039245.D

Acq: 03 Oct 2025 13:07

Instrument :

MSVOA_V

ClientSampleId :

VV1003WBS01

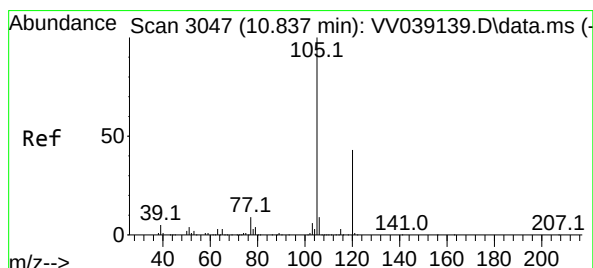
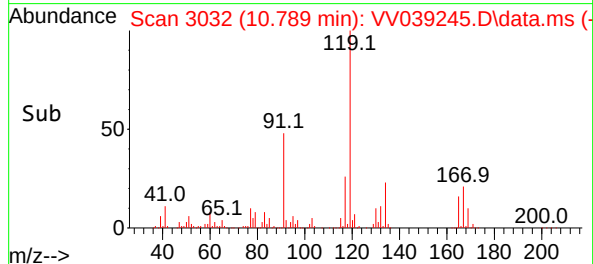
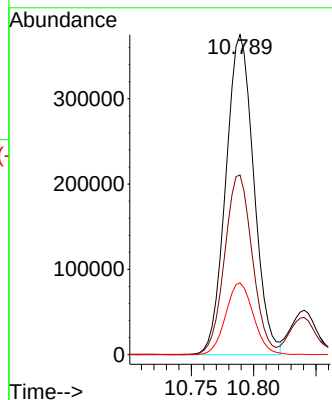
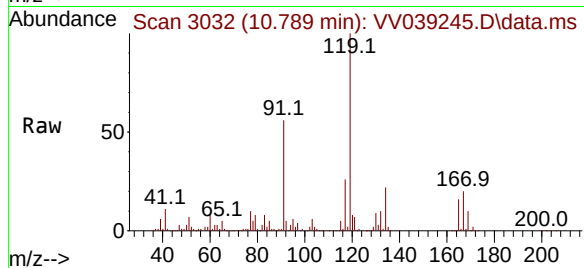
Tgt Ion:119 Resp: 586432

Ion Ratio Lower Upper

119 100

91 55.5 28.5 85.6

134 22.3 11.5 34.4



#84

1,2,4-Trimethylbenzene

Concen: 20.537 ug/l

RT: 10.841 min Scan# 3048

Delta R.T. 0.003 min

Lab File: VV039245.D

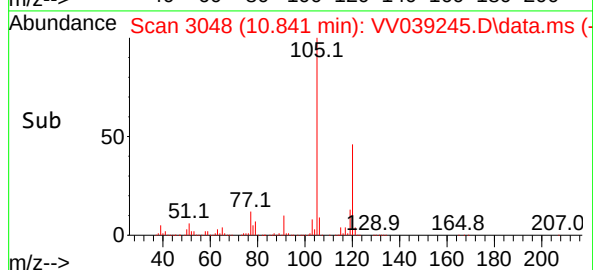
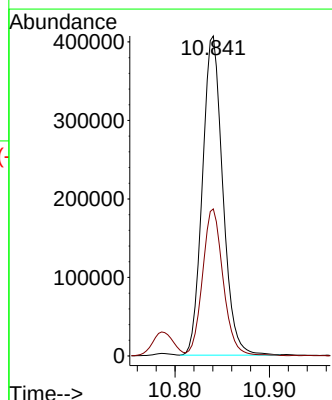
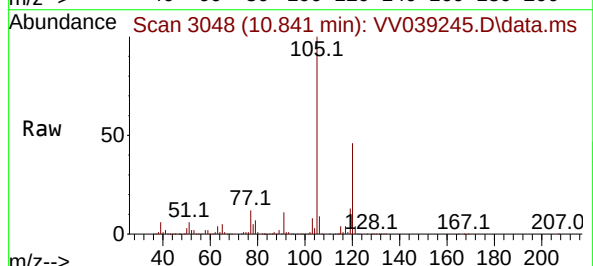
Acq: 03 Oct 2025 13:07

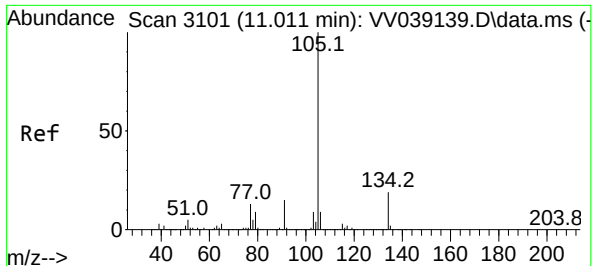
Tgt Ion:105 Resp: 608680

Ion Ratio Lower Upper

105 100

120 46.6 22.4 67.2





#85

sec-Butylbenzene

Concen: 18.937 ug/l

RT: 11.011 min Scan# 3101

Delta R.T. -0.000 min

Lab File: VV039245.D

Acq: 03 Oct 2025 13:07

Instrument :

MSVOA_V

ClientSampleId :

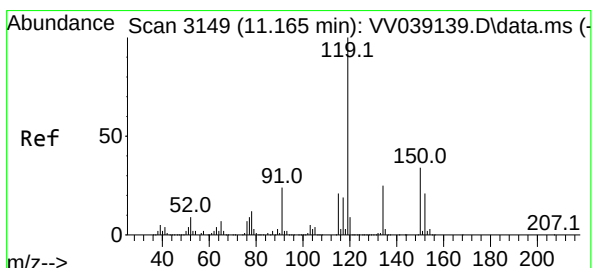
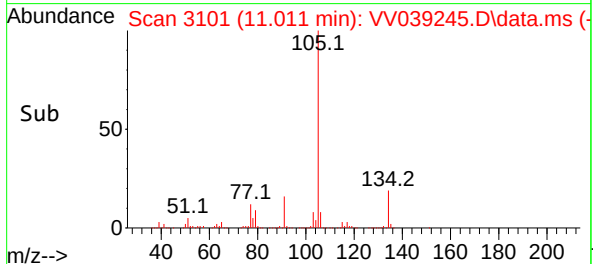
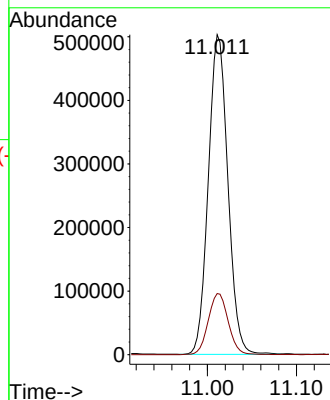
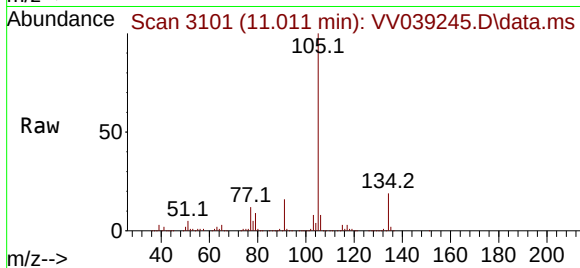
VV1003WBS01

Tgt Ion:105 Resp: 764641

Ion Ratio Lower Upper

105 100

134 19.6 9.6 28.8



#86

p-Isopropyltoluene

Concen: 19.237 ug/l

RT: 11.165 min Scan# 3149

Delta R.T. -0.000 min

Lab File: VV039245.D

Acq: 03 Oct 2025 13:07

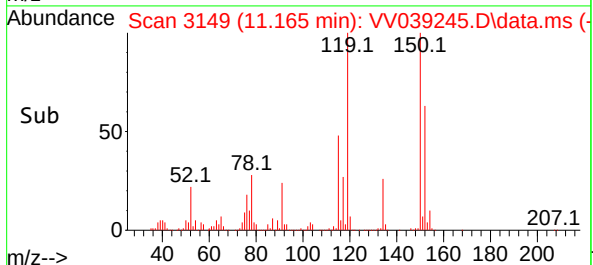
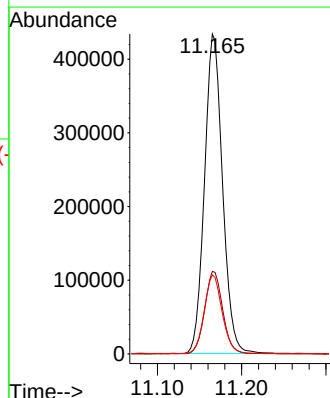
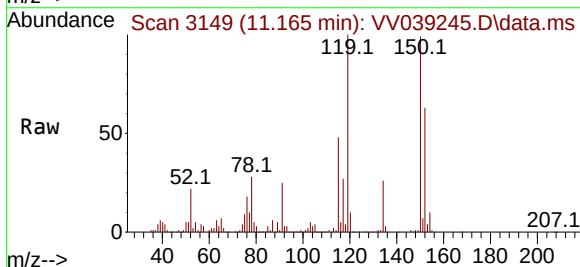
Tgt Ion:119 Resp: 646503

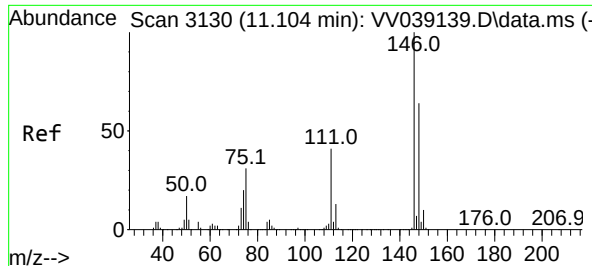
Ion Ratio Lower Upper

119 100

134 26.0 12.7 38.0

91 24.5 12.0 36.1





#87

1,3-Dichlorobenzene

Concen: 20.127 ug/l

RT: 11.104 min Scan# 3130

Delta R.T. -0.000 min

Lab File: VV039245.D

Acq: 03 Oct 2025 13:07

Instrument :

MSVOA_V

ClientSampleId :

VV1003WBS01

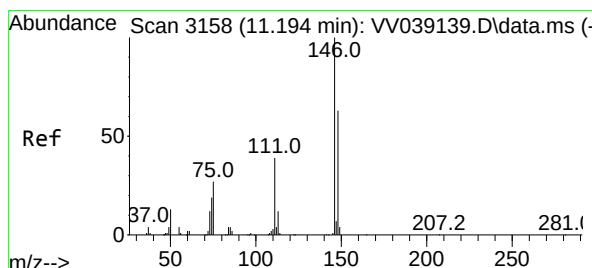
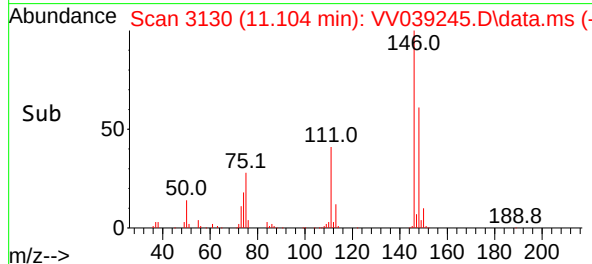
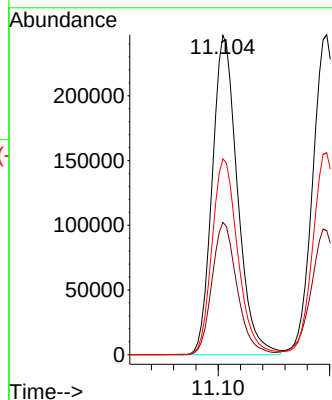
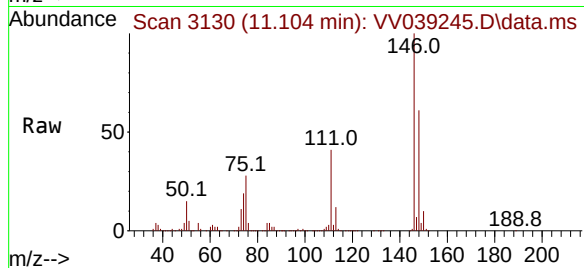
Tgt Ion:146 Resp: 388162

Ion Ratio Lower Upper

146 100

111 41.2 20.9 62.8

148 62.7 31.8 95.3



#88

1,4-Dichlorobenzene

Concen: 19.293 ug/l

RT: 11.197 min Scan# 3159

Delta R.T. 0.003 min

Lab File: VV039245.D

Acq: 03 Oct 2025 13:07

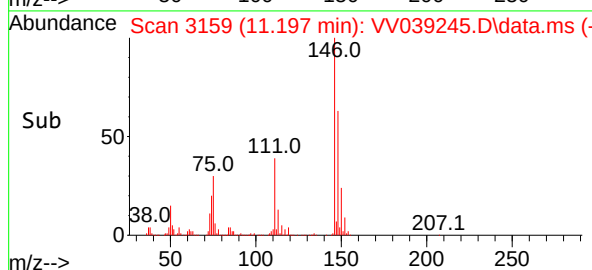
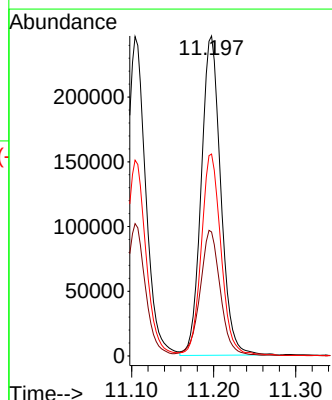
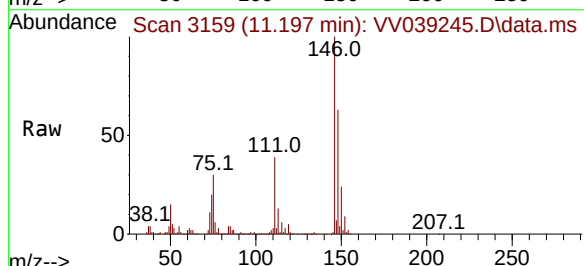
Tgt Ion:146 Resp: 408220

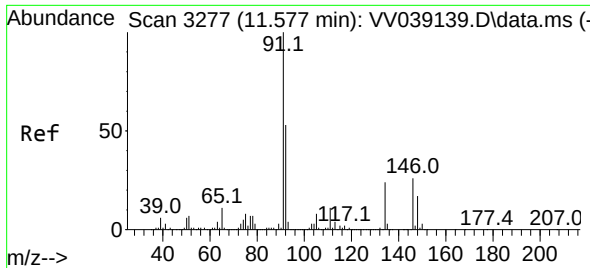
Ion Ratio Lower Upper

146 100

111 40.3 20.3 60.8

148 63.0 31.4 94.2





#89

n-Butylbenzene

Concen: 18.289 ug/l

RT: 11.580 min Scan# 31

Delta R.T. 0.003 min

Lab File: VV039245.D

Acq: 03 Oct 2025 13:07

Instrument :

MSVOA_V

ClientSampleId :

VV1003WBS01

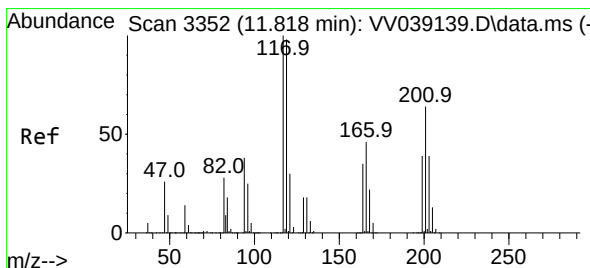
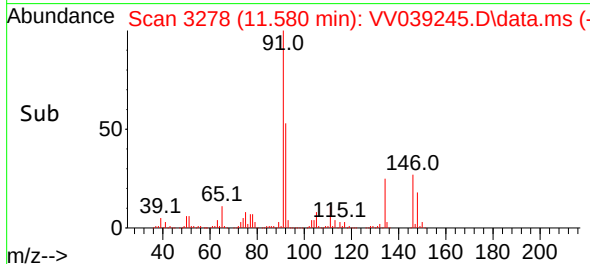
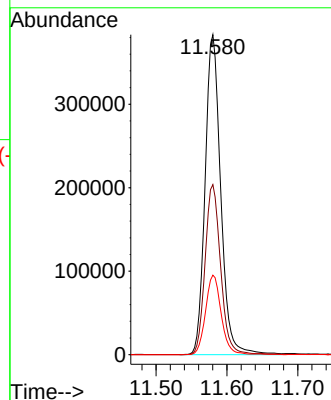
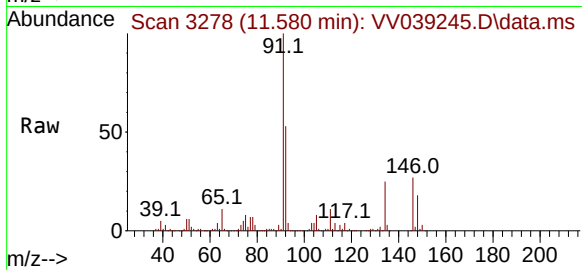
Tgt Ion: 91 Resp: 586984

Ion Ratio Lower Upper

91 100

92 52.6 26.6 79.8

134 25.1 12.1 36.3



#90

Hexachloroethane

Concen: 16.621 ug/l

RT: 11.818 min Scan# 3352

Delta R.T. -0.000 min

Lab File: VV039245.D

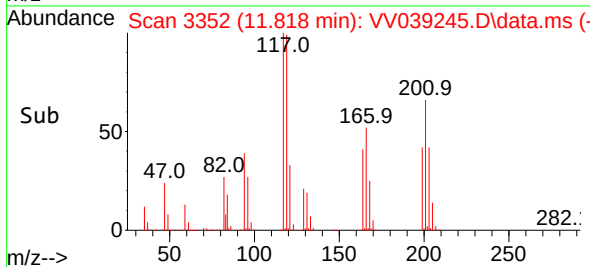
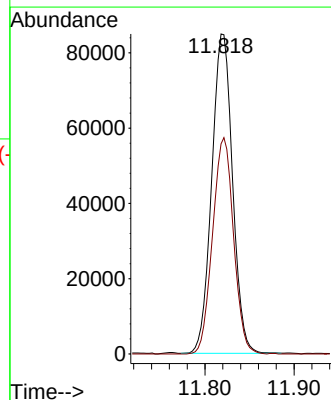
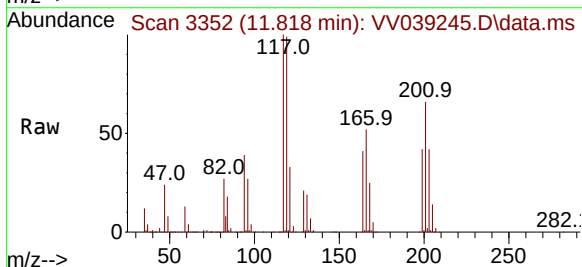
Acq: 03 Oct 2025 13:07

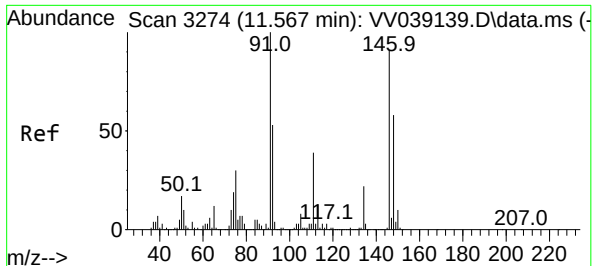
Tgt Ion: 117 Resp: 137547

Ion Ratio Lower Upper

117 100

201 68.3 32.3 96.8

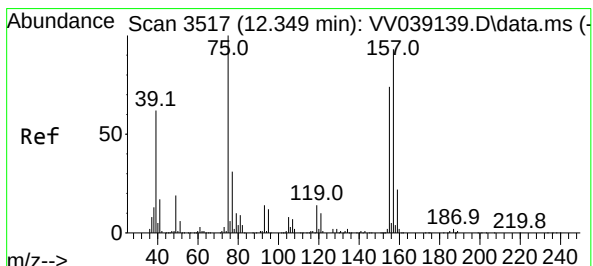
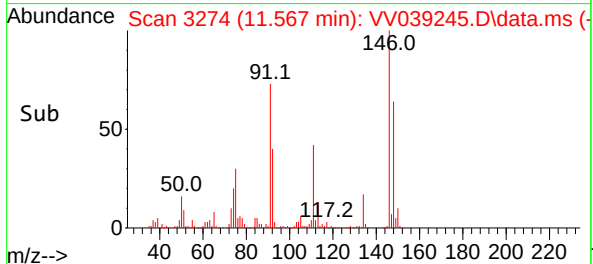
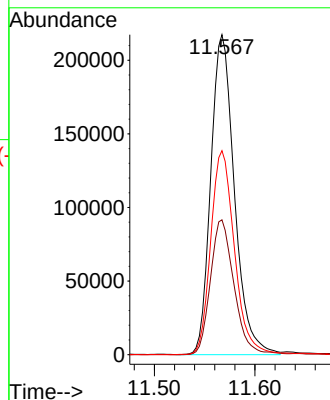
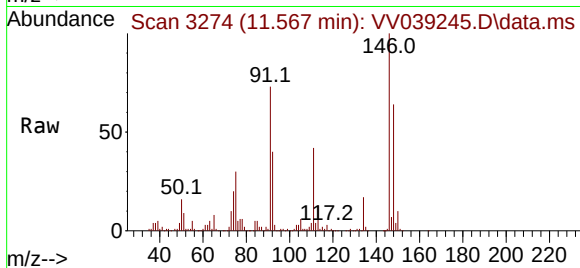




#91
1,2-Dichlorobenzene
Concen: 19.715 ug/l
RT: 11.567 min Scan# 311
Delta R.T. 0.000 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

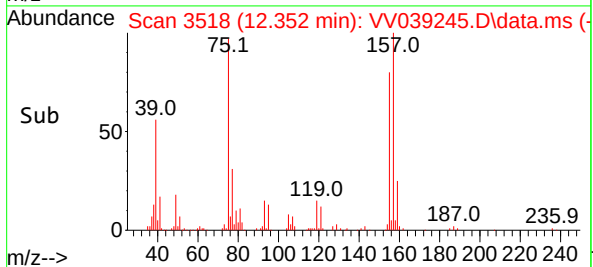
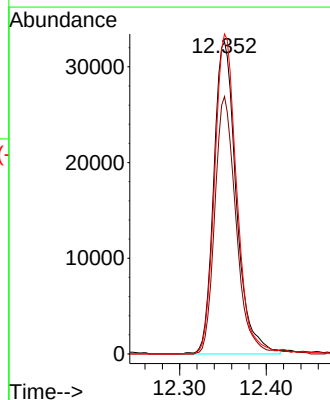
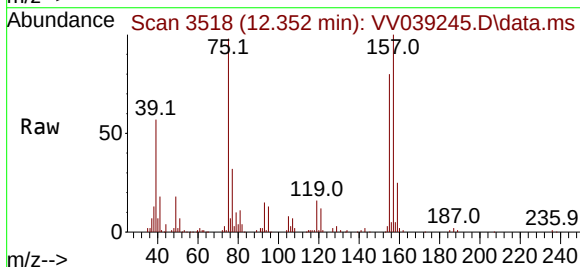
Instrument :
MSVOA_V
ClientSampleId :
VV1003WBS01

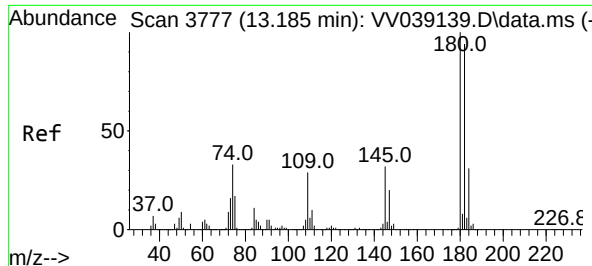
Tgt Ion:146 Resp: 355232
Ion Ratio Lower Upper
146 100
111 42.0 21.5 64.5
148 64.2 31.9 95.7



#92
1,2-Dibromo-3-Chloropropane
Concen: 20.532 ug/l
RT: 12.352 min Scan# 3518
Delta R.T. 0.003 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Tgt Ion: 75 Resp: 58842
Ion Ratio Lower Upper
75 100
155 77.1 38.6 115.8
157 99.7 49.5 148.3





#93

1,2,4-Trichlorobenzene

Concen: 20.205 ug/l

RT: 13.184 min Scan# 31

Delta R.T. -0.001 min

Lab File: VV039245.D

Acq: 03 Oct 2025 13:07

Instrument :

MSVOA_V

ClientSampleId :

VV1003WBS01

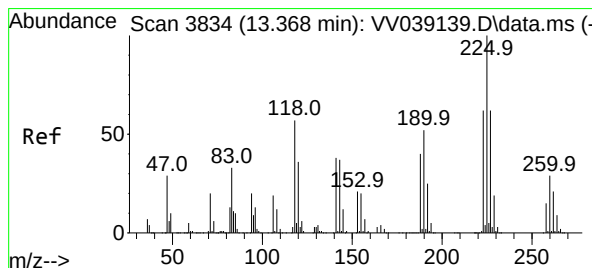
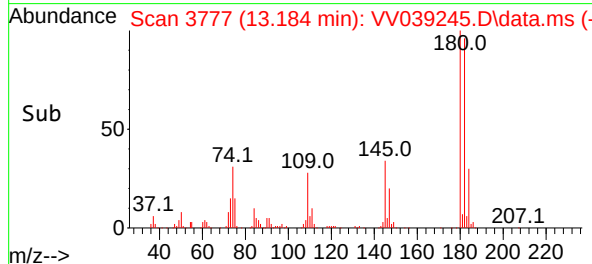
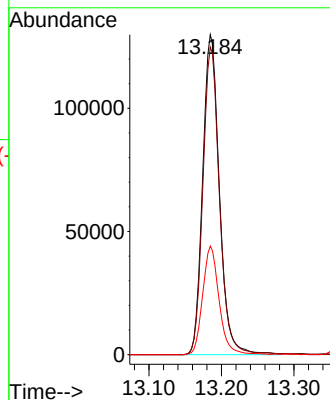
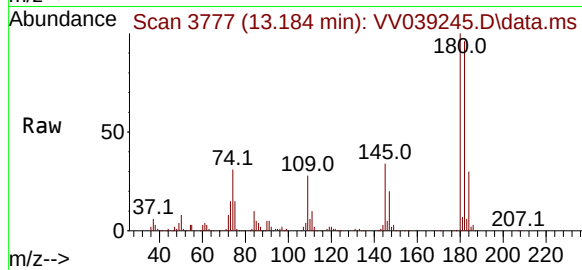
Tgt Ion:180 Resp: 208698

Ion Ratio Lower Upper

180 100

182 95.4 47.1 141.4

145 33.3 16.3 48.8



#94

Hexachlorobutadiene

Concen: 16.928 ug/l

RT: 13.368 min Scan# 3834

Delta R.T. -0.000 min

Lab File: VV039245.D

Acq: 03 Oct 2025 13:07

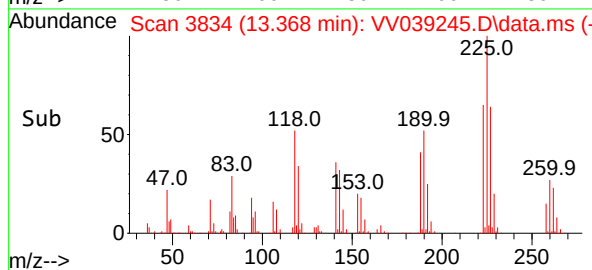
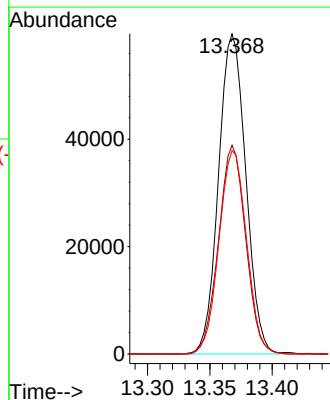
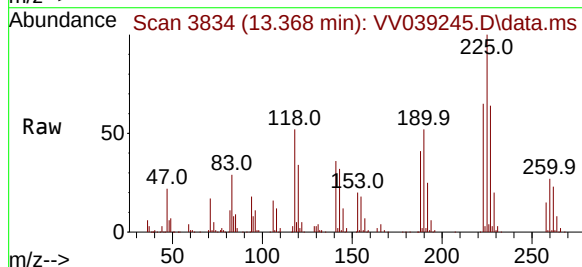
Tgt Ion:225 Resp: 90851

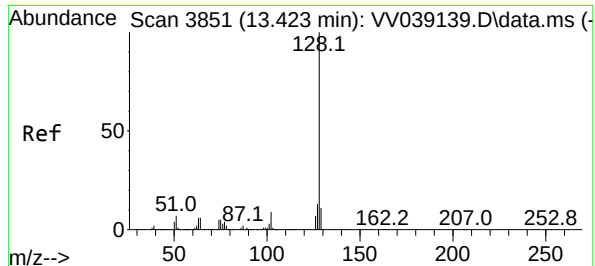
Ion Ratio Lower Upper

225 100

223 64.8 31.6 94.7

227 64.1 31.8 95.4





#95

Naphthalene

Concen: 19.595 ug/l

RT: 13.426 min Scan# 3851

Delta R.T. 0.003 min

Lab File: VV039245.D

Acq: 03 Oct 2025 13:07

Instrument :

MSVOA_V

ClientSampleId :

VV1003WBS01

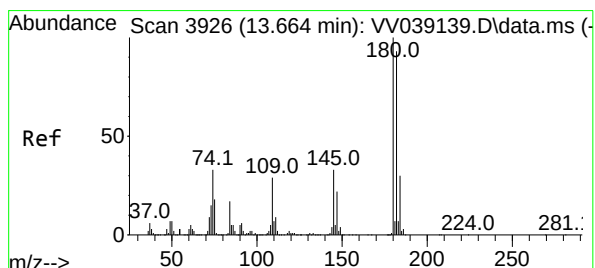
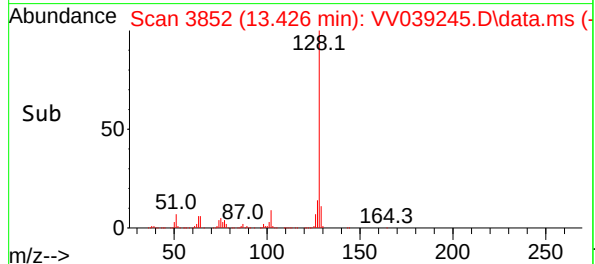
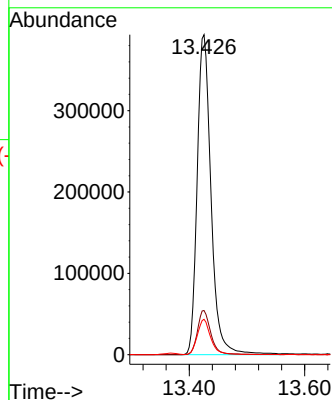
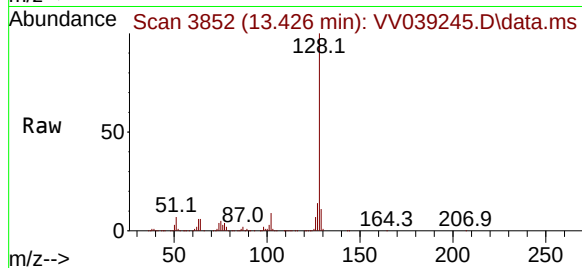
Tgt Ion:128 Resp: 654167

Ion Ratio Lower Upper

128 100

127 13.2 10.3 15.5

129 10.5 8.6 13.0



#96

1,2,3-Trichlorobenzene

Concen: 19.850 ug/l

RT: 13.667 min Scan# 3927

Delta R.T. 0.003 min

Lab File: VV039245.D

Acq: 03 Oct 2025 13:07

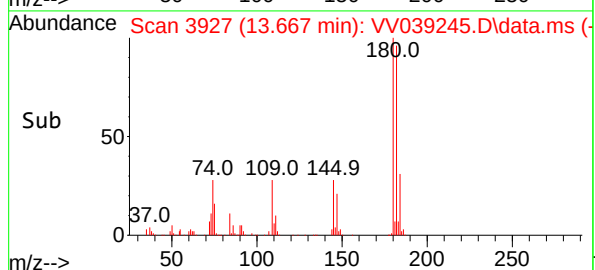
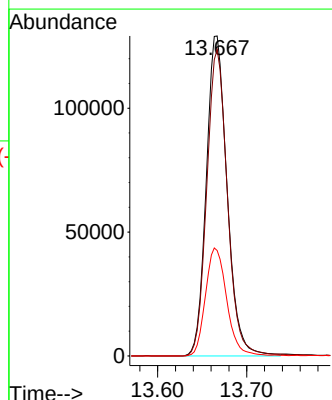
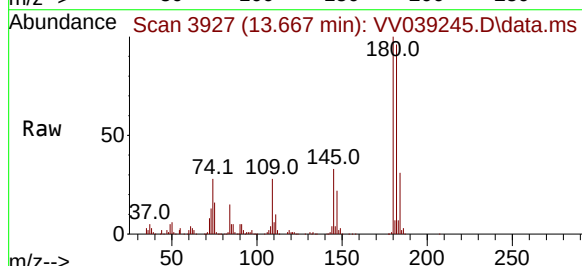
Tgt Ion:180 Resp: 209698

Ion Ratio Lower Upper

180 100

182 94.9 46.9 140.8

145 34.5 17.0 51.0



Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.		Date Collected:	
Project:	Ansonia Landfill 2025		Date Received:	
Client Sample ID:	VV1003WBSD01		SDG No.:	Q3254
Lab Sample ID:	VV1003WBSD01		Matrix:	Water
Analytical Method:	8260D		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	DB-624UI	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039246.D	1	10/03/25 13:29	VV100325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	17.0		0.26	1.00	ug/L
75-00-3	Chloroethane	17.8		0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	18.8		0.33	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.7		0.23	1.00	ug/L
107-13-1	Acrylonitrile	94.7		0.83	5.00	ug/L
67-64-1	Acetone	93.4		1.50	5.00	ug/L
75-15-0	Carbon Disulfide	15.9		0.21	1.00	ug/L
75-09-2	Methylene Chloride	20.2		0.28	1.00	ug/L
108-05-4	Vinyl Acetate	92.0		0.66	5.00	ug/L
78-93-3	2-Butanone	93.5		0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	18.8		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.6		0.19	1.00	ug/L
74-97-5	Bromochloromethane	19.6		0.22	1.00	ug/L
67-66-3	Chloroform	18.2		0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	18.4		0.20	1.00	ug/L
71-43-2	Benzene	19.3		0.15	1.00	ug/L
78-87-5	1,2-Dichloropropane	19.1		0.20	1.00	ug/L
74-95-3	Dibromomethane	20.1		0.25	1.00	ug/L
75-27-4	Bromodichloromethane	19.4		0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	110		0.68	5.00	ug/L
108-88-3	Toluene	20.9		0.14	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	21.3		0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	21.1		0.16	1.00	ug/L
591-78-6	2-Hexanone	95.2		0.89	5.00	ug/L
124-48-1	Dibromochloromethane	20.6		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	21.4		0.15	1.00	ug/L
127-18-4	Tetrachloroethene	20.4		0.23	1.00	ug/L
108-90-7	Chlorobenzene	20.2		0.12	1.00	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	20.7		0.19	1.00	ug/L
100-41-4	Ethyl Benzene	20.2		0.13	1.00	ug/L

Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	
Project:	Ansonia Landfill 2025	Date Received:	
Client Sample ID:	VV1003WBSD01	SDG No.:	Q3254
Lab Sample ID:	VV1003WBSD01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039246.D	1	10/03/25 13:29	VV100325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1330-20-7	Total Xylenes	65.1		0.36	3.00	ug/L
100-42-5	Styrene	19.6		0.15	1.00	ug/L
75-25-2	Bromoform	22.2		0.19	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	18.8		0.26	1.00	ug/L
96-18-4	1,2,3-Trichloropropane	18.8		0.35	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.5		0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	20.2		0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	20.6		0.53	1.00	ug/L
74-88-4	Methyl Iodide	22.2		0.83	5.00	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	19.5		0.84	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	42.8		74 - 125	86%	SPK: 50
1868-53-7	Dibromofluoromethane	48.6		75 - 124	97%	SPK: 50
2037-26-5	Toluene-d8	45.3		86 - 113	91%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.2		77 - 121	106%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	531000	4.603			
540-36-3	1,4-Difluorobenzene	835000	5.535			
3114-55-4	Chlorobenzene-d5	808000	8.776			
3855-82-1	1,4-Dichlorobenzene-d4	481000	11.172			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV100325\
 Data File : VV039246.D
 Acq On : 03 Oct 2025 13:29
 Operator : SY/MD
 Sample : VV1003WBSD01
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VV1003WBSD01

Quant Time: Oct 04 01:09:29 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 24 08:08:08 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.603	168	530712	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	834883	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	807929	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	481201	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.944	65	328654	42.788	ug/l	0.00
Spiked Amount	50.000	Range	81 - 118	Recovery	=	85.580%
35) Dibromofluoromethane	4.503	113	326044	48.578	ug/l	0.00
Spiked Amount	50.000	Range	80 - 119	Recovery	=	97.160%
50) Toluene-d8	7.236	98	892549	45.278	ug/l	0.00
Spiked Amount	50.000	Range	89 - 112	Recovery	=	90.560%
62) 4-Bromofluorobenzene	10.001	95	431498	53.172	ug/l	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	=	106.340%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.121	85	138162	16.446	ug/l	97
3) Chloromethane	1.230	50	148206	16.433	ug/l	100
4) Vinyl Chloride	1.298	62	163797	16.965	ug/l	99
5) Bromomethane	1.497	94	115699	19.009	ug/l	98
6) Chloroethane	1.561	64	108471	17.788	ug/l	98
7) Trichlorofluoromethane	1.728	101	262214	18.758	ug/l	99
8) Diethyl Ether	1.921	74	98190	18.921	ug/l	94
9) 1,1,2-Trichlorotrifluo...	2.085	101	164380	19.763	ug/l	98
10) Methyl Iodide	2.198	142	175456	22.151	ug/l	99
11) Tert butyl alcohol	2.568	59	159087	97.996	ug/l	99
12) 1,1-Dichloroethene	2.082	96	150016	18.748	ug/l	95
13) Acrolein	2.015	56	17374	61.677	ug/l	99
14) Allyl chloride	2.362	41	257886	18.042	ug/l	95
15) Acrylonitrile	2.674	53	492695	94.675	ug/l	99
16) Acetone	2.121	43	474589	93.370	ug/l	97
17) Carbon Disulfide	2.253	76	388682	15.883	ug/l	98
18) Methyl Acetate	2.381	43	244952	21.524	ug/l	95
19) Methyl tert-butyl Ether	2.712	73	521032	20.434	ug/l	96
20) Methylene Chloride	2.458	84	180046	20.156	ug/l	93
21) trans-1,2-Dichloroethene	2.703	96	160169	18.803	ug/l	95
22) Diisopropyl ether	3.217	45	513200	18.766	ug/l	85
23) Vinyl Acetate	3.191	43	2200657	91.989	ug/l	97
24) 1,1-Dichloroethane	3.117	63	307499	18.387	ug/l	98
25) 2-Butanone	3.870	43	575336	93.540	ug/l	97
26) 2,2-Dichloropropane	3.815	77	259507	17.501	ug/l	100
27) cis-1,2-Dichloroethene	3.825	96	184518	19.640	ug/l	95
28) Bromochloromethane	4.146	49	144451	19.566	ug/l	90
29) Tetrahydrofuran	4.240	42	355912	92.448	ug/l	96
30) Chloroform	4.281	83	318542	18.241	ug/l	98
31) Cyclohexane	4.584	56	222742	16.259	ug/l	97
32) 1,1,1-Trichloroethane	4.516	97	277703	18.368	ug/l	97
36) 1,1-Dichloropropene	4.748	75	188879	18.613	ug/l	99
37) Ethyl Acetate	3.982	43	219152	17.798	ug/l	98
38) Carbon Tetrachloride	4.738	117	233151	18.800	ug/l	99
39) Methylcyclohexane	6.047	83	208027	16.976	ug/l	96
40) Benzene	5.011	78	637793	19.301	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV100325\
 Data File : VV039246.D
 Acq On : 03 Oct 2025 13:29
 Operator : SY/MD
 Sample : VV1003WBSD01
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VV1003WBSD01

Quant Time: Oct 04 01:09:29 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 24 08:08:08 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.166	41	93622	18.084	ug/l	95
42) 1,2-Dichloroethane	5.043	62	221588	19.138	ug/l	97
43) Isopropyl Acetate	5.198	43	327228	19.491	ug/l	98
44) Trichloroethene	5.834	130	154476	20.259	ug/l	99
45) 1,2-Dichloropropane	6.092	63	156695	19.078	ug/l	98
46) Dibromomethane	6.227	93	126461	20.117	ug/l	95
47) Bromodichloromethane	6.429	83	252593	19.436	ug/l	98
48) Methyl methacrylate	6.301	41	144785	19.024	ug/l	95
49) 1,4-Dioxane	6.294	88	44086	358.959	ug/l	95
51) 4-Methyl-2-Pentanone	7.149	43	1164431	105.425	ug/l	99
52) Toluene	7.310	92	400377	20.898	ug/l	98
53) t-1,3-Dichloropropene	7.577	75	241108	21.288	ug/l	99
54) cis-1,3-Dichloropropene	6.950	75	263751	21.095	ug/l	97
55) 1,1,2-Trichloroethane	7.760	97	175184	20.392	ug/l	98
56) Ethyl methacrylate	7.719	69	215210	21.095	ug/l	96
57) 1,3-Dichloropropane	7.937	76	274772	20.267	ug/l	99
58) 2-Chloroethyl Vinyl ether	6.815	63	474541	88.830	ug/l	97
59) 2-Hexanone	8.066	43	835694	95.188	ug/l	99
60) Dibromochloromethane	8.169	129	202074	20.644	ug/l	100
61) 1,2-Dibromoethane	8.275	107	188087	21.409	ug/l	98
64) Tetrachloroethene	7.899	164	138188	20.420	ug/l	96
65) Chlorobenzene	8.805	112	454849	20.212	ug/l	98
66) 1,1,1,2-Tetrachloroethane	8.899	131	168298	20.697	ug/l	98
67) Ethyl Benzene	8.937	91	689222	20.232	ug/l	98
68) m/p-Xylenes	9.063	106	568873	43.267	ug/l	99
69) o-Xylene	9.468	106	254107	21.827	ug/l	96
70) Styrene	9.487	104	461186	19.600	ug/l	99
71) Bromoform	9.654	173	140950	22.191	ug/l	98
73) Isopropylbenzene	9.857	105	699688	20.047	ug/l	100
74) N-amyl acetate	9.725	43	275038	19.756	ug/l	95
75) 1,1,2,2-Tetrachloroethane	10.165	83	287626	18.809	ug/l	99
76) 1,2,3-Trichloropropane	10.198	75	205482	18.755	ug/l	98
77) Bromobenzene	10.140	156	187797	20.739	ug/l	96
78) n-propylbenzene	10.278	91	831093	19.554	ug/l	98
79) 2-Chlorotoluene	10.349	91	523752	20.594	ug/l	100
80) 1,3,5-Trimethylbenzene	10.464	105	591210	20.380	ug/l	99
81) trans-1,4-Dichloro-2-b...	9.927	75	89087	19.521	ug/l	99
82) 4-Chlorotoluene	10.464	91	608970	20.650	ug/l	99
83) tert-Butylbenzene	10.789	119	550870	19.043	ug/l	99
84) 1,2,4-Trimethylbenzene	10.841	105	581871	20.660	ug/l	98
85) sec-Butylbenzene	11.011	105	722734	18.837	ug/l	100
86) p-Isopropyltoluene	11.165	119	610180	19.107	ug/l	99
87) 1,3-Dichlorobenzene	11.104	146	372185	20.309	ug/l	99
88) 1,4-Dichlorobenzene	11.198	146	391588	19.476	ug/l	99
89) n-Butylbenzene	11.580	91	559457	18.344	ug/l	99
90) Hexachloroethane	11.818	117	132512	16.851	ug/l	96
91) 1,2-Dichlorobenzene	11.567	146	345188	20.161	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.352	75	56191	20.636	ug/l	91
93) 1,2,4-Trichlorobenzene	13.185	180	198726	20.248	ug/l	100
94) Hexachlorobutadiene	13.368	225	84439	16.557	ug/l	98
95) Naphthalene	13.426	128	632578	19.941	ug/l	100
96) 1,2,3-Trichlorobenzene	13.664	180	203723	20.295	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV100325\
Data File : VV039246.D
Acq On : 03 Oct 2025 13:29
Operator : SY/MD
Sample : VV1003WBSD01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBSD01

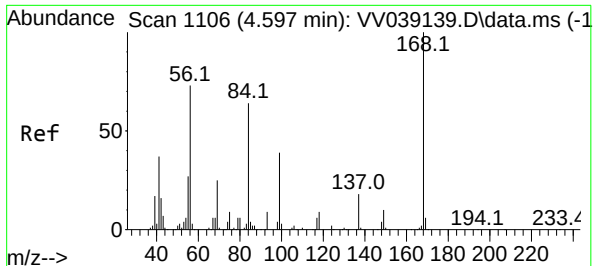
Quant Time: Oct 04 01:09:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBSD01

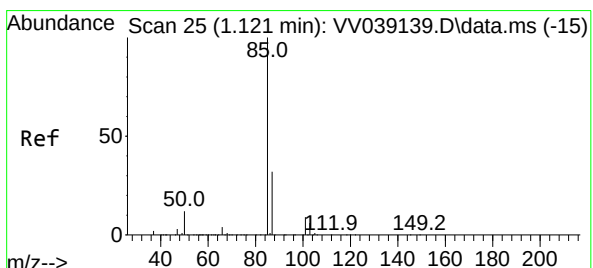
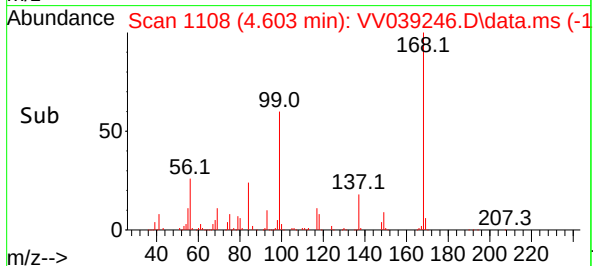
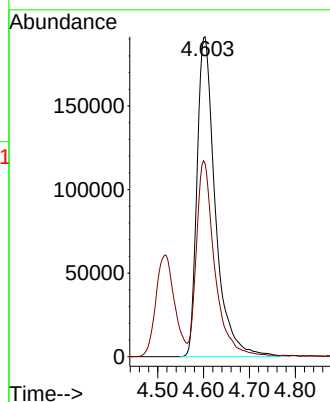
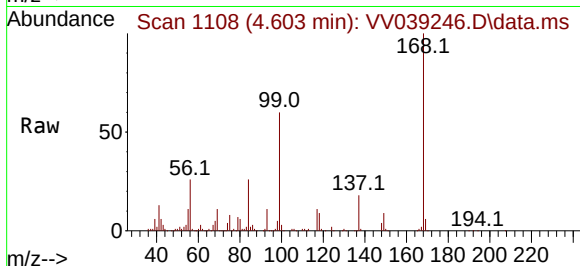
- 1
- 2
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- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.603 min Scan# 1108
Delta R.T. 0.006 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

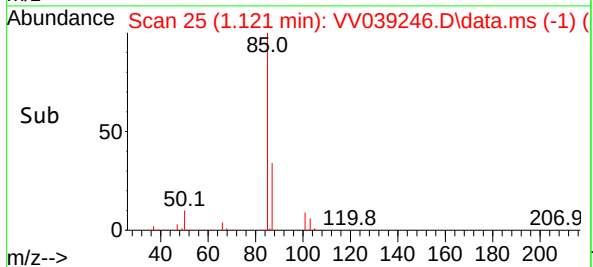
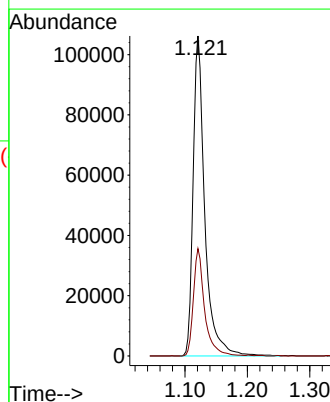
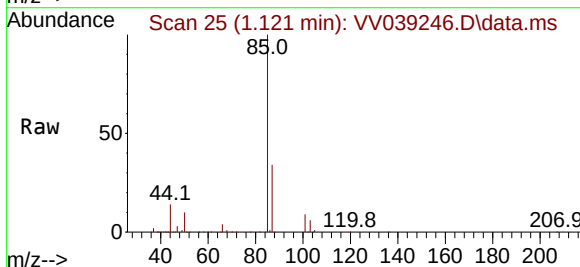
Instrument :
MSVOA_V
ClientSampleId :
VV1003WBSD01

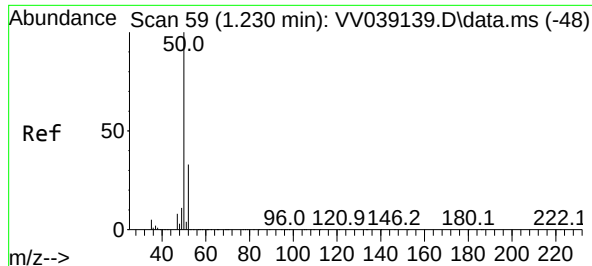
Tgt Ion:168 Resp: 530712
Ion Ratio Lower Upper
168 100
99 60.1 49.6 74.4



#2
Dichlorodifluoromethane
Concen: 16.446 ug/l
RT: 1.121 min Scan# 25
Delta R.T. -0.000 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Tgt Ion: 85 Resp: 138162
Ion Ratio Lower Upper
85 100
87 33.5 16.0 47.9





#3

Chloromethane

Concen: 16.433 ug/l

RT: 1.230 min Scan# 59

Delta R.T. -0.000 min

Lab File: VV039246.D

Acq: 03 Oct 2025 13:29

Instrument :

MSVOA_V

ClientSampleId :

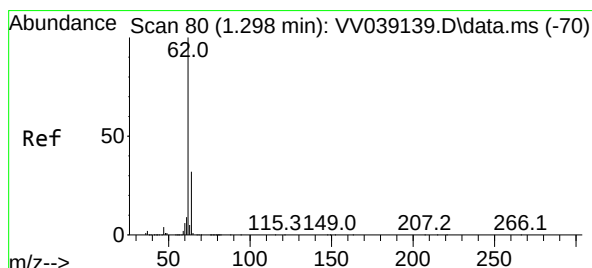
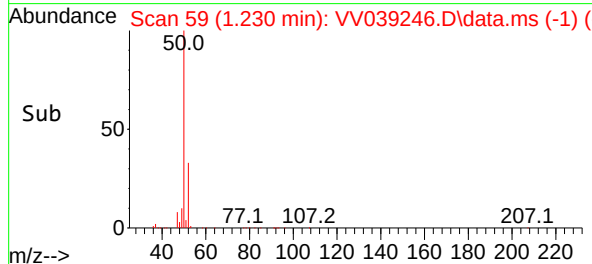
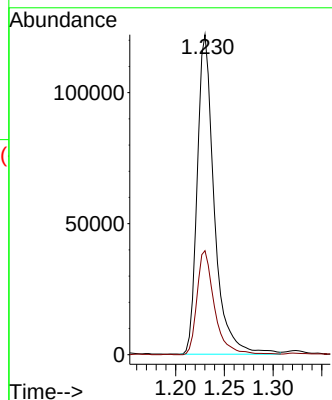
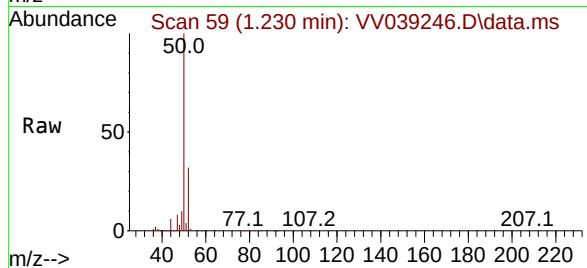
VV1003WBSD01

Tgt Ion: 50 Resp: 148206

Ion Ratio Lower Upper

50 100

52 32.5 26.0 39.0



#4

Vinyl Chloride

Concen: 16.965 ug/l

RT: 1.298 min Scan# 80

Delta R.T. -0.000 min

Lab File: VV039246.D

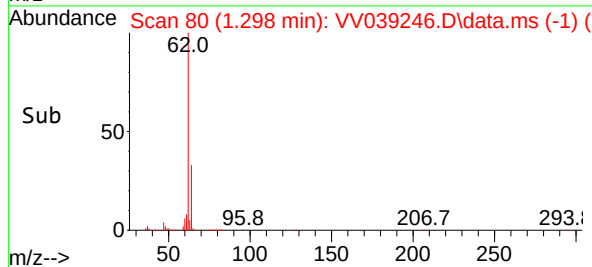
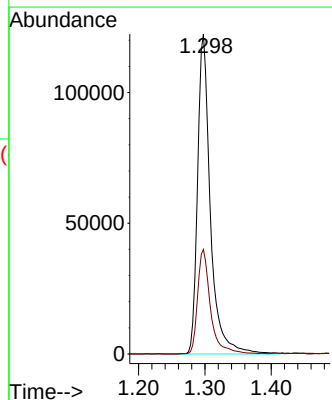
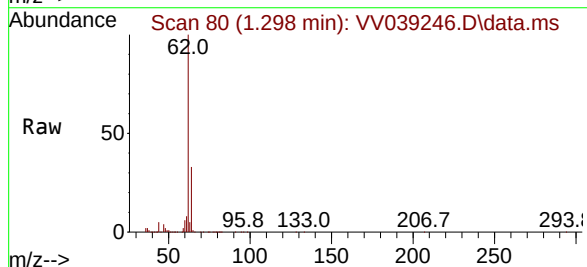
Acq: 03 Oct 2025 13:29

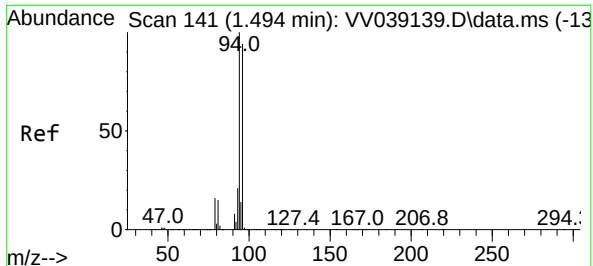
Tgt Ion: 62 Resp: 163797

Ion Ratio Lower Upper

62 100

64 32.5 25.6 38.4

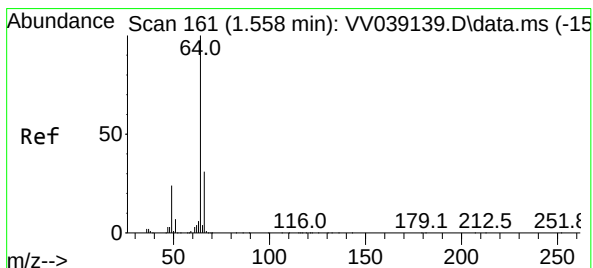
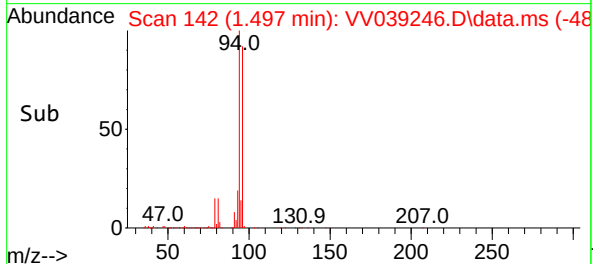
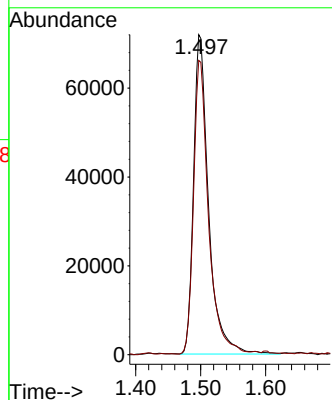
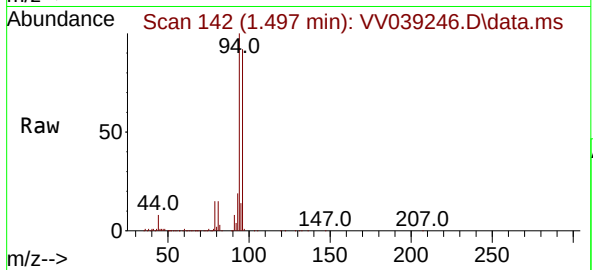




#5
Bromomethane
Concen: 19.009 ug/l
RT: 1.497 min Scan# 141
Delta R.T. 0.003 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

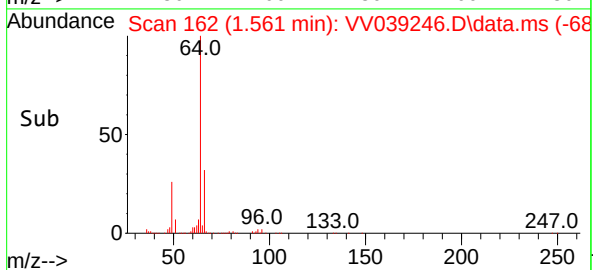
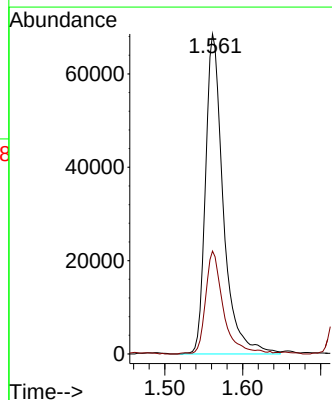
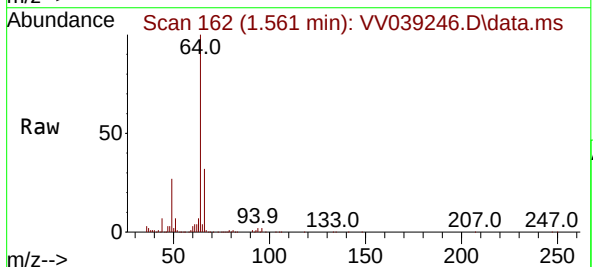
Instrument :
MSVOA_V
ClientSampleId :
VV1003WBSD01

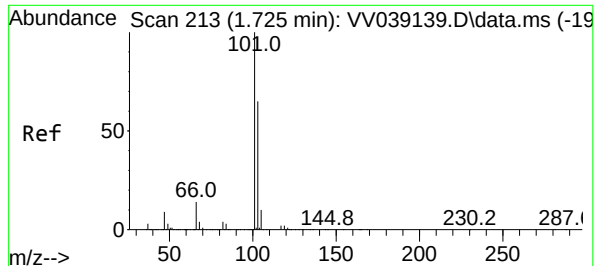
Tgt Ion: 94 Resp: 115699
Ion Ratio Lower Upper
94 100
96 91.9 74.9 112.3



#6
Chloroethane
Concen: 17.788 ug/l
RT: 1.561 min Scan# 162
Delta R.T. 0.003 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Tgt Ion: 64 Resp: 108471
Ion Ratio Lower Upper
64 100
66 32.0 24.6 36.8

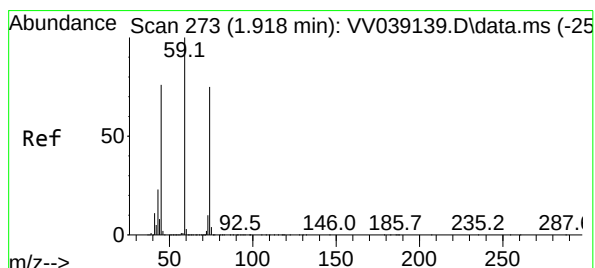
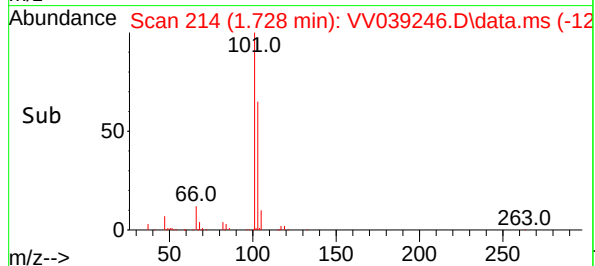
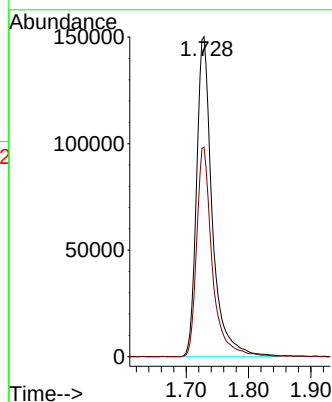
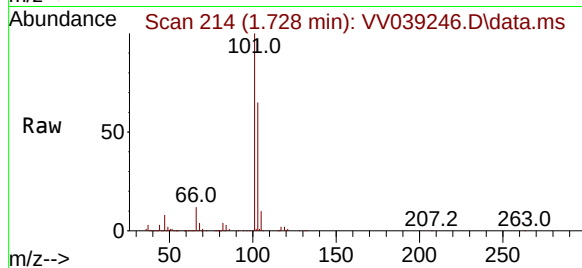




#7
 Trichlorofluoromethane
 Concen: 18.758 ug/l
 RT: 1.728 min Scan# 213
 Delta R.T. 0.003 min
 Lab File: VV039246.D
 Acq: 03 Oct 2025 13:29

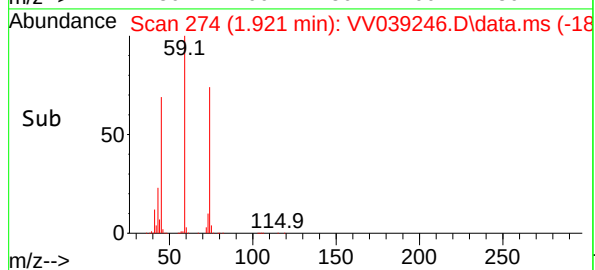
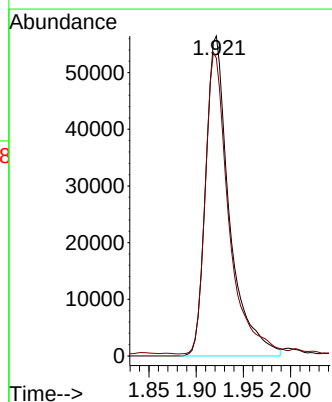
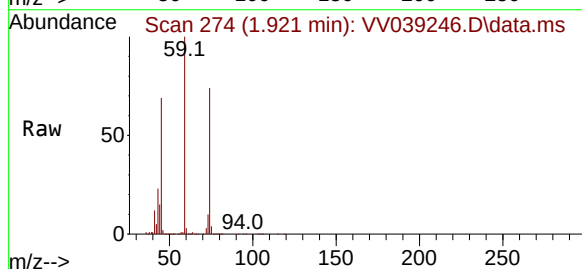
Instrument :
 MSVOA_V
 ClientSampleId :
 VV1003WBSD01

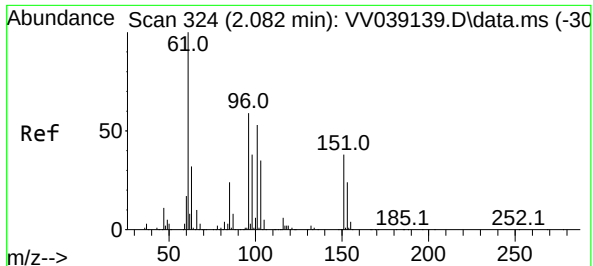
Tgt Ion:101 Resp: 262214
 Ion Ratio Lower Upper
 101 100
 103 65.4 52.0 78.0



#8
 Diethyl Ether
 Concen: 18.921 ug/l
 RT: 1.921 min Scan# 274
 Delta R.T. 0.003 min
 Lab File: VV039246.D
 Acq: 03 Oct 2025 13:29

Tgt Ion: 74 Resp: 98190
 Ion Ratio Lower Upper
 74 100
 45 93.5 49.6 148.8

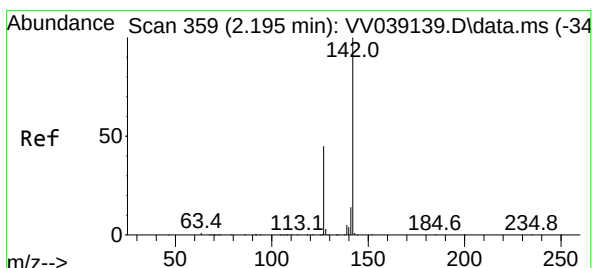
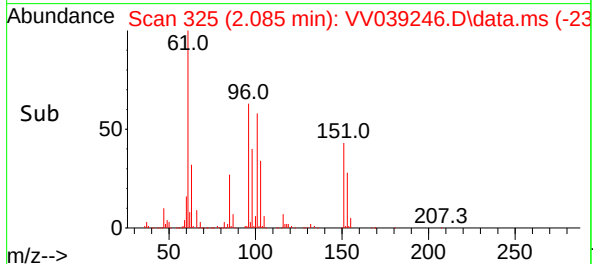
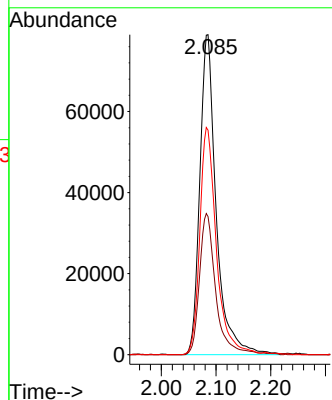
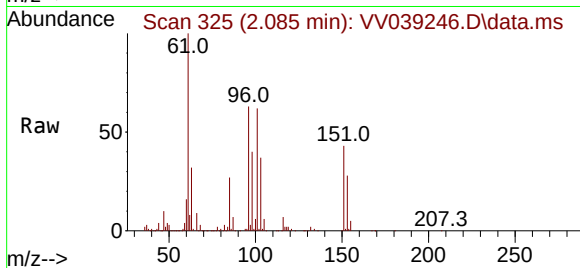




#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.763 ug/l
RT: 2.085 min Scan# 31
Delta R.T. 0.003 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

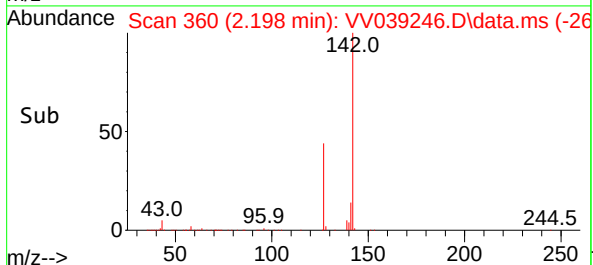
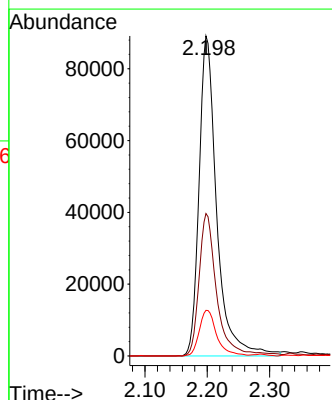
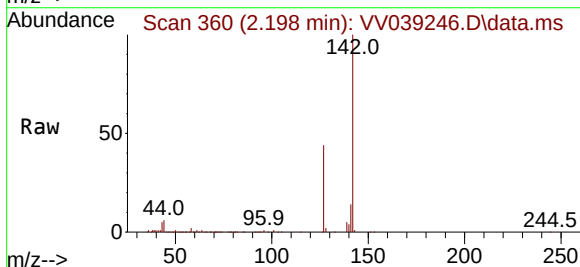
Instrument :
MSVOA_V
ClientSampleId :
VV1003WBSD01

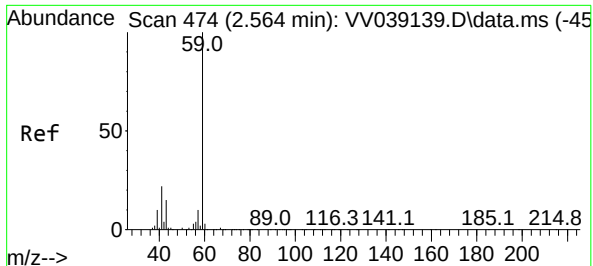
Tgt Ion:101 Resp: 164380
Ion Ratio Lower Upper
101 100
85 43.5 36.2 54.2
151 72.0 56.3 84.5



#10
Methyl Iodide
Concen: 22.151 ug/l
RT: 2.198 min Scan# 360
Delta R.T. 0.003 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Tgt Ion:142 Resp: 175456
Ion Ratio Lower Upper
142 100
127 44.8 36.3 54.5
141 14.1 11.2 16.8





#11

Tert butyl alcohol

Concen: 97.996 ug/l

RT: 2.568 min Scan# 474

Delta R.T. 0.003 min

Lab File: VV039246.D

Acq: 03 Oct 2025 13:29

Instrument :

MSVOA_V

ClientSampleId :

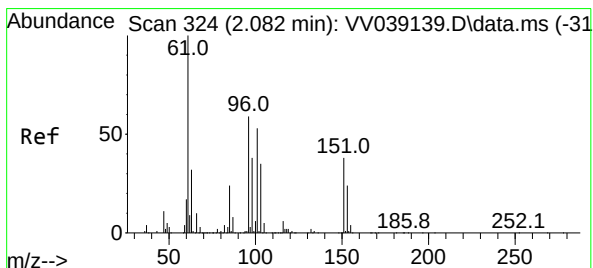
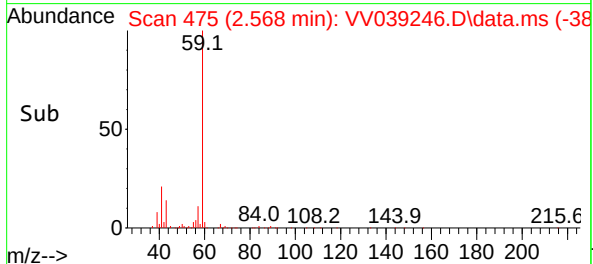
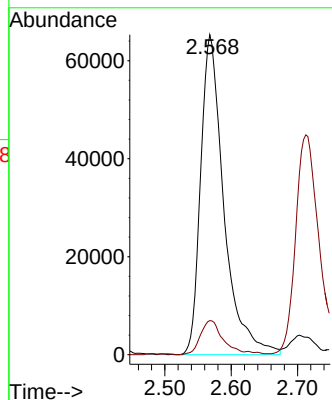
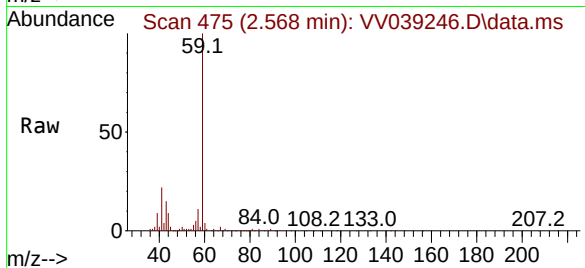
VV1003WBSD01

Tgt Ion: 59 Resp: 159087

Ion Ratio Lower Upper

59 100

57 10.2 7.8 11.8



#12

1,1-Dichloroethene

Concen: 18.748 ug/l

RT: 2.082 min Scan# 324

Delta R.T. -0.000 min

Lab File: VV039246.D

Acq: 03 Oct 2025 13:29

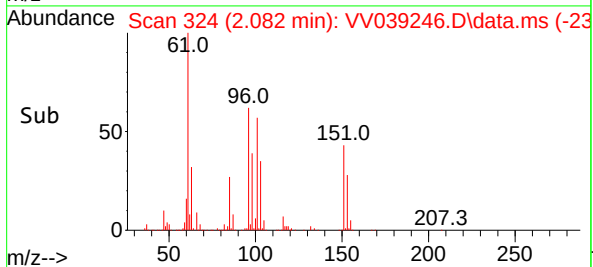
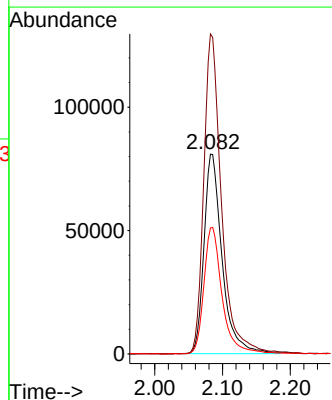
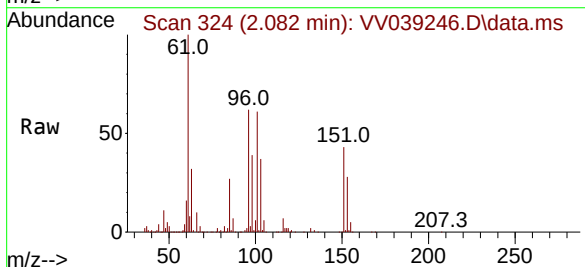
Tgt Ion: 96 Resp: 150016

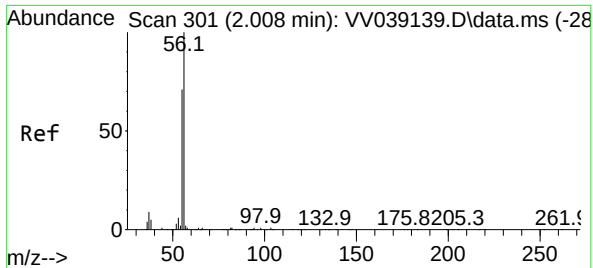
Ion Ratio Lower Upper

96 100

61 160.3 136.0 204.0

98 63.2 51.0 76.6

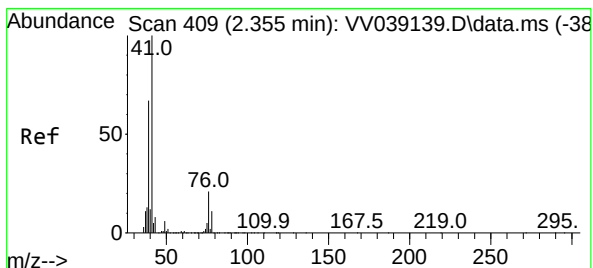
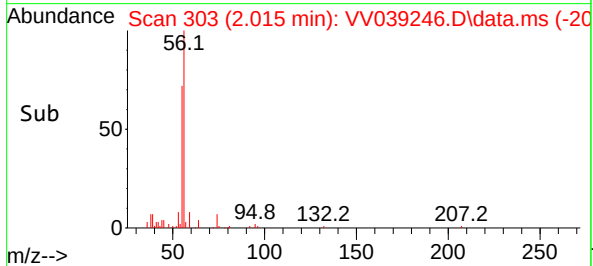
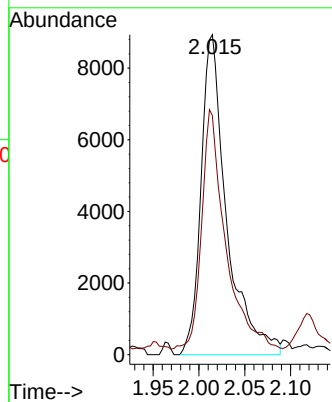
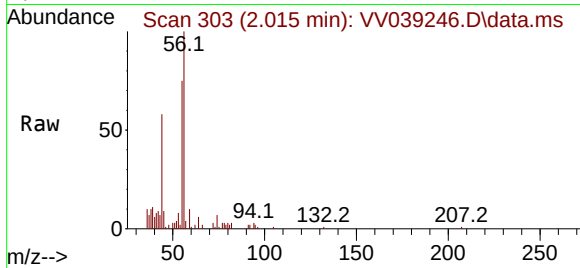




#13
Acrolein
Concen: 61.677 ug/l
RT: 2.015 min Scan# 301
Delta R.T. 0.006 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

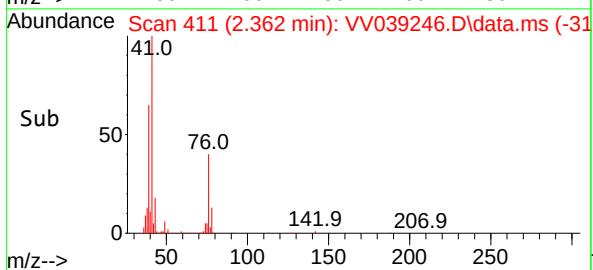
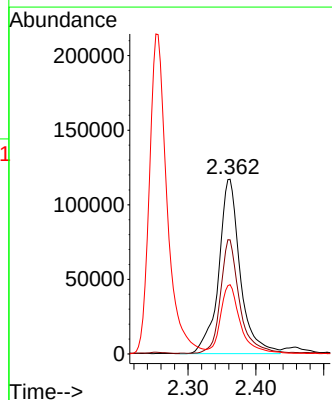
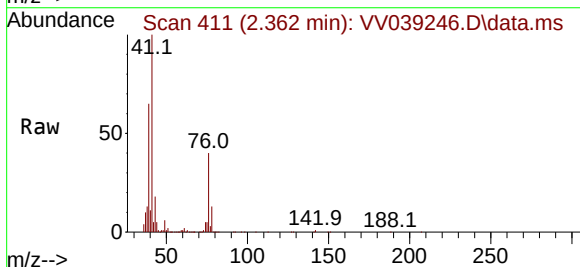
Instrument :
MSVOA_V
ClientSampleId :
VV1003WBSD01

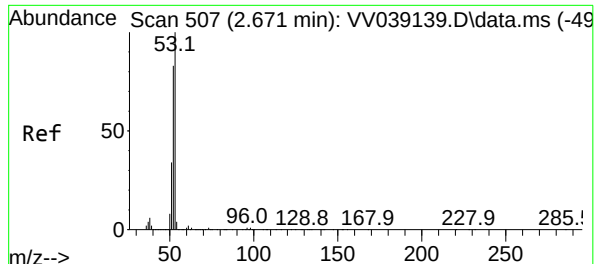
Tgt Ion: 56 Resp: 17374
Ion Ratio Lower Upper
56 100
55 69.6 56.2 84.4



#14
Allyl chloride
Concen: 18.042 ug/l
RT: 2.362 min Scan# 411
Delta R.T. 0.006 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Tgt Ion: 41 Resp: 257886
Ion Ratio Lower Upper
41 100
39 58.0 51.0 76.6
76 36.1 28.2 42.4

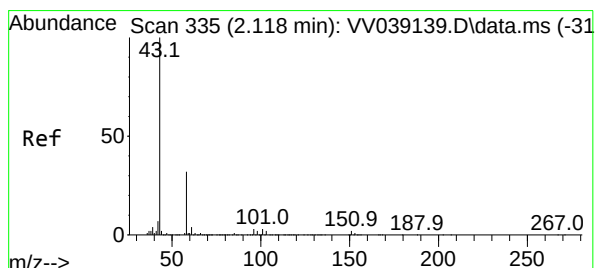
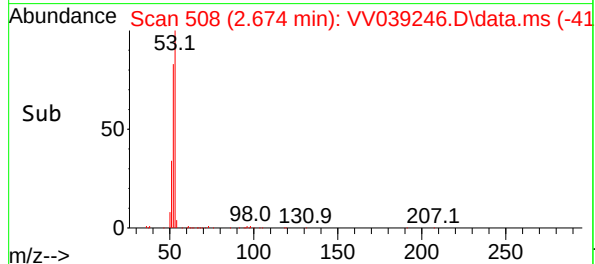
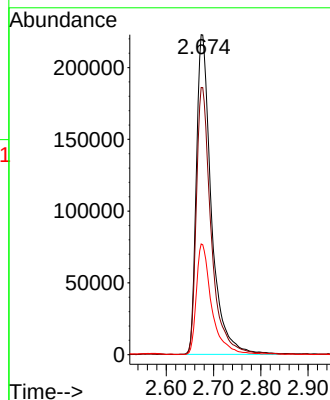
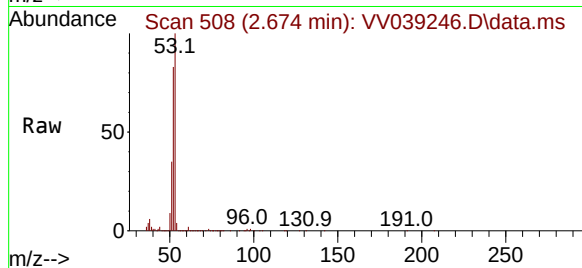




#15
Acrylonitrile
Concen: 94.675 ug/l
RT: 2.674 min Scan# 507
Delta R.T. 0.003 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

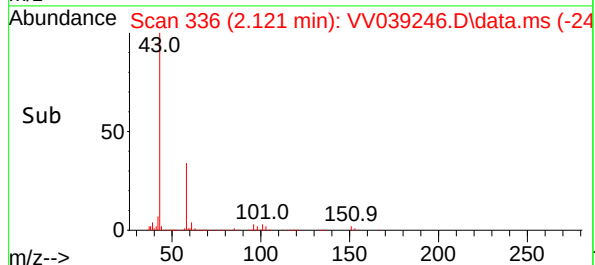
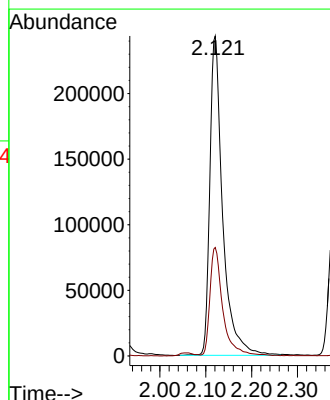
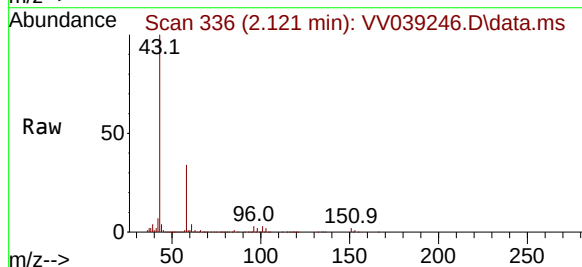
Instrument :
MSVOA_V
ClientSampleId :
VV1003WBSD01

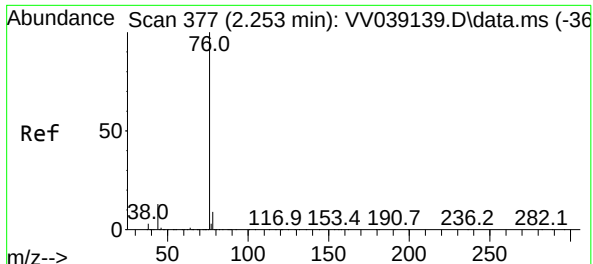
Tgt Ion: 53 Resp: 492695
Ion Ratio Lower Upper
53 100
52 82.0 66.1 99.1
51 34.8 28.5 42.7



#16
Acetone
Concen: 93.370 ug/l
RT: 2.121 min Scan# 336
Delta R.T. 0.003 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Tgt Ion: 43 Resp: 474589
Ion Ratio Lower Upper
43 100
58 33.8 25.8 38.6





#17

Carbon Disulfide

Concen: 15.883 ug/l

RT: 2.253 min Scan# 31

Delta R.T. -0.000 min

Lab File: VV039246.D

Acq: 03 Oct 2025 13:29

Instrument :

MSVOA_V

ClientSampleId :

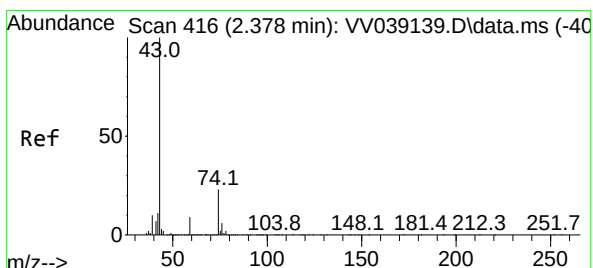
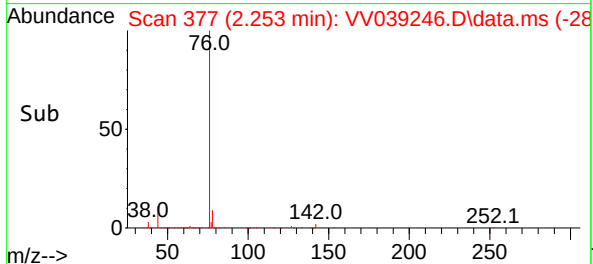
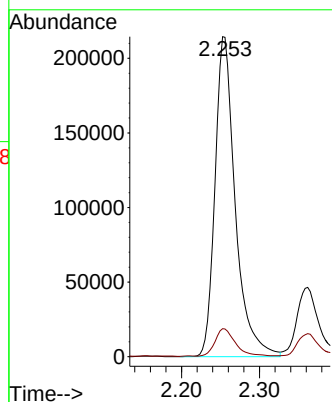
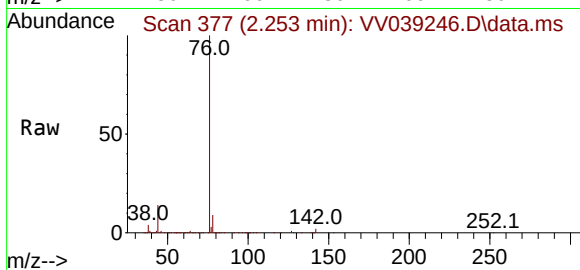
VV1003WBSD01

Tgt Ion: 76 Resp: 388682

Ion Ratio Lower Upper

76 100

78 8.7 7.4 11.0



#18

Methyl Acetate

Concen: 21.524 ug/l

RT: 2.381 min Scan# 417

Delta R.T. 0.003 min

Lab File: VV039246.D

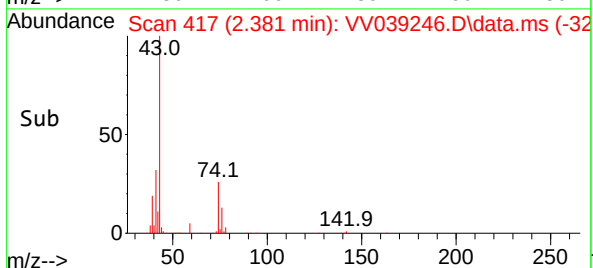
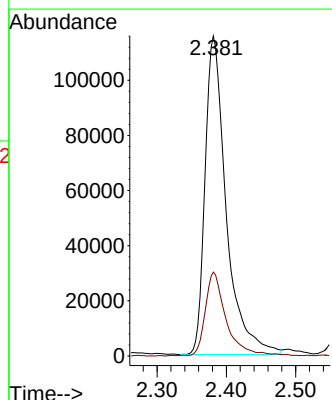
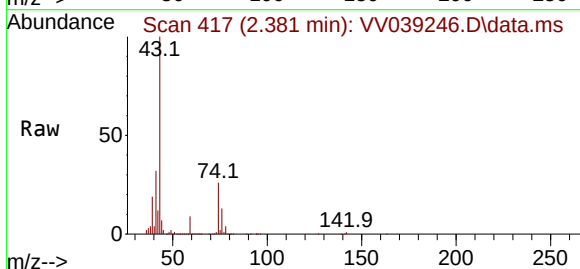
Acq: 03 Oct 2025 13:29

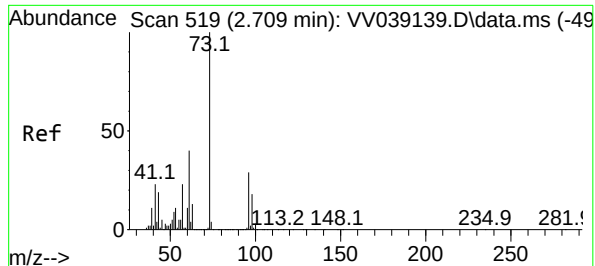
Tgt Ion: 43 Resp: 244952

Ion Ratio Lower Upper

43 100

74 25.5 18.6 27.8





#19

Methyl tert-butyl Ether

Concen: 20.434 ug/l

RT: 2.712 min Scan# 519

Delta R.T. 0.003 min

Lab File: VV039246.D

Acq: 03 Oct 2025 13:29

Instrument :

MSVOA_V

ClientSampleId :

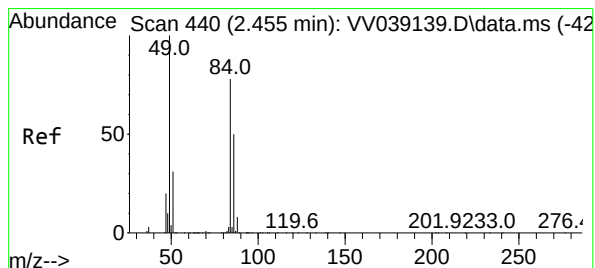
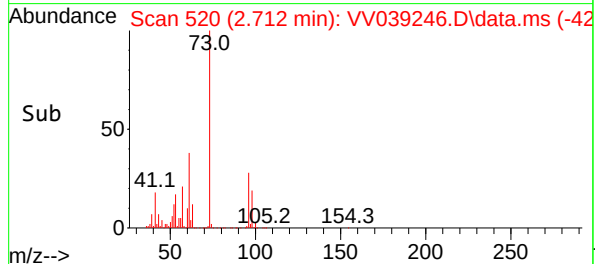
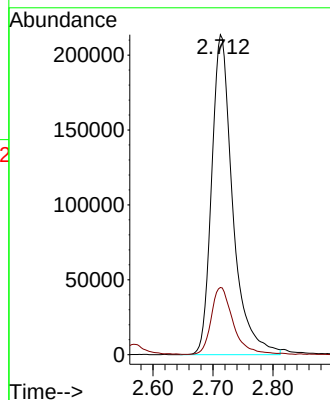
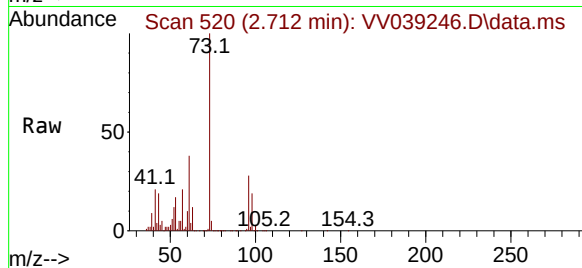
VV1003WBSD01

Tgt Ion: 73 Resp: 521032

Ion Ratio Lower Upper

73 100

57 20.9 18.2 27.4



#20

Methylene Chloride

Concen: 20.156 ug/l

RT: 2.458 min Scan# 441

Delta R.T. 0.003 min

Lab File: VV039246.D

Acq: 03 Oct 2025 13:29

Tgt Ion: 84 Resp: 180046

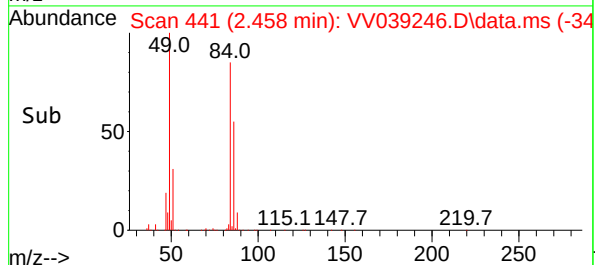
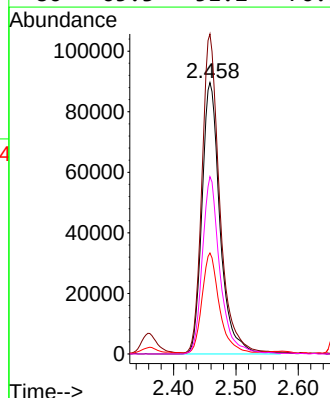
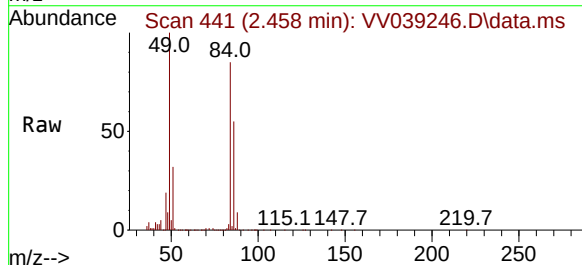
Ion Ratio Lower Upper

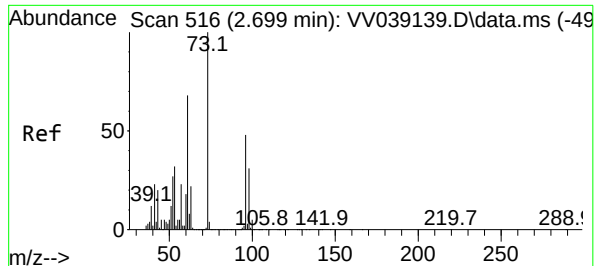
84 100

49 117.5 102.8 154.2

51 36.7 31.9 47.9

86 65.3 51.2 76.8





#21

trans-1,2-Dichloroethene

Concen: 18.803 ug/l

RT: 2.703 min Scan# 516

Delta R.T. 0.003 min

Lab File: VV039246.D

Acq: 03 Oct 2025 13:29

Instrument :

MSVOA_V

ClientSampleId :

VV1003WBSD01

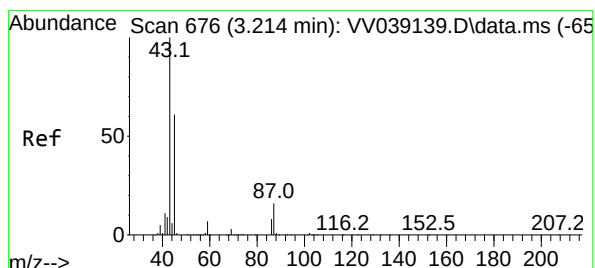
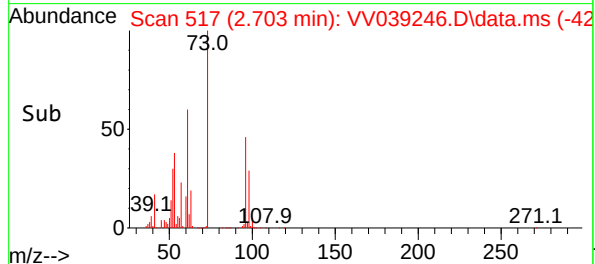
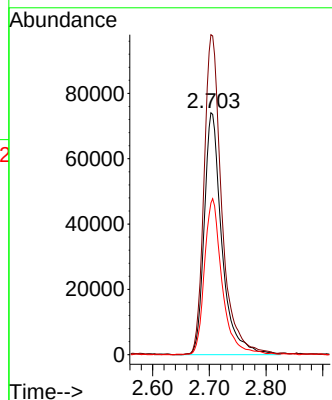
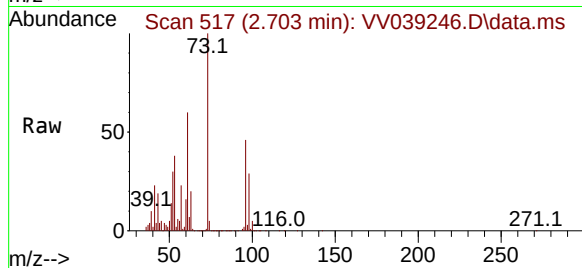
Tgt Ion: 96 Resp: 160169

Ion Ratio Lower Upper

96 100

61 132.3 112.8 169.2

98 62.5 51.1 76.7



#22

Diisopropyl ether

Concen: 18.766 ug/l

RT: 3.217 min Scan# 677

Delta R.T. 0.003 min

Lab File: VV039246.D

Acq: 03 Oct 2025 13:29

Tgt Ion: 45 Resp: 513200

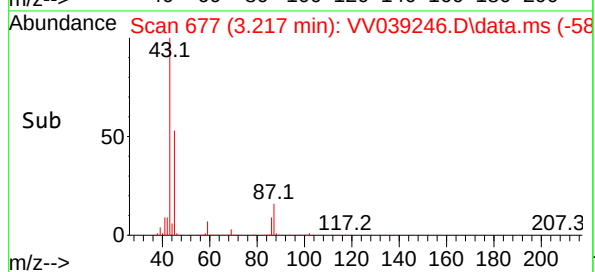
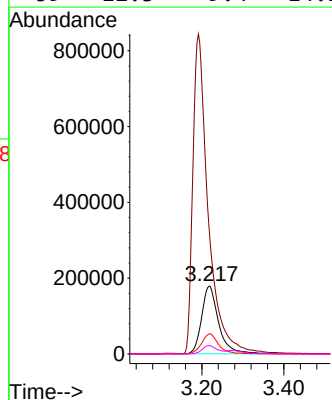
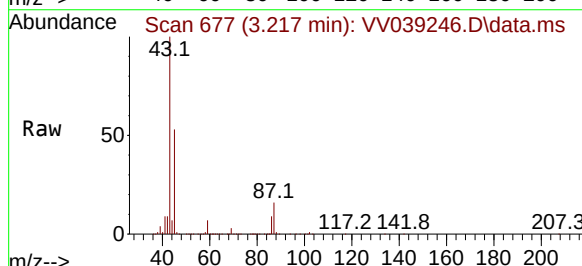
Ion Ratio Lower Upper

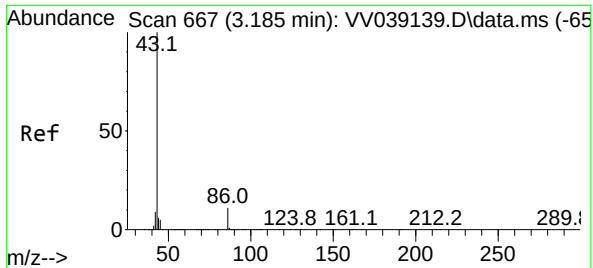
45 100

43 187.2 130.9 196.3

87 29.3 21.1 31.7

59 12.3 9.4 14.2





#23

Vinyl Acetate

Concen: 91.989 ug/l

RT: 3.191 min Scan# 669

Delta R.T. 0.006 min

Lab File: VV039246.D

Acq: 03 Oct 2025 13:29

Instrument :

MSVOA_V

ClientSampleId :

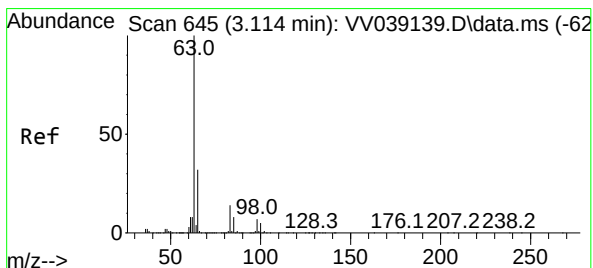
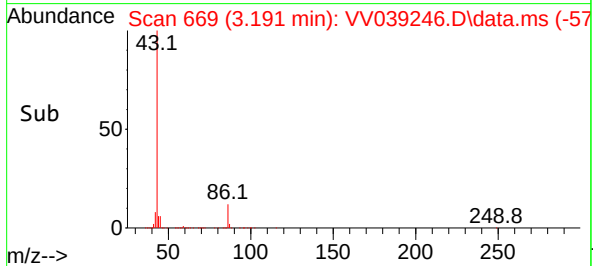
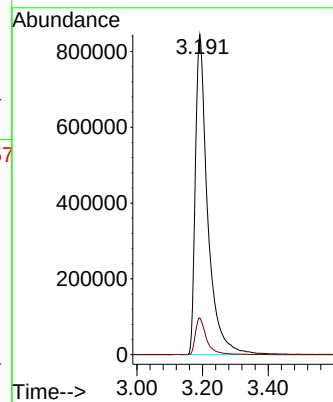
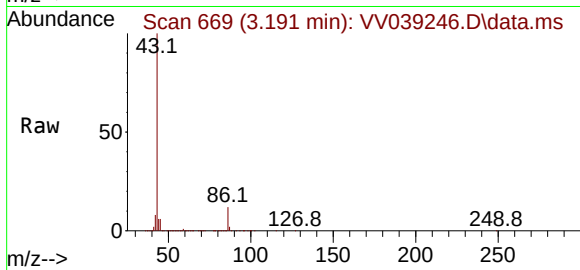
VV1003WBSD01

Tgt Ion: 43 Resp: 2200657

Ion Ratio Lower Upper

43 100

86 11.5 8.4 12.6



#24

1,1-Dichloroethane

Concen: 18.387 ug/l

RT: 3.117 min Scan# 646

Delta R.T. 0.003 min

Lab File: VV039246.D

Acq: 03 Oct 2025 13:29

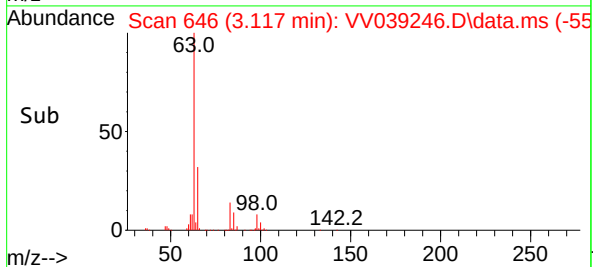
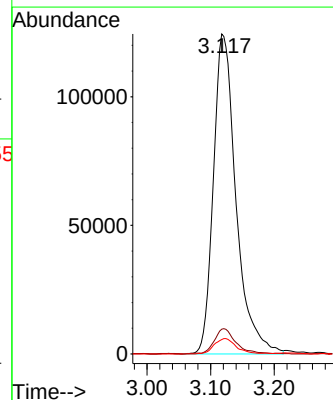
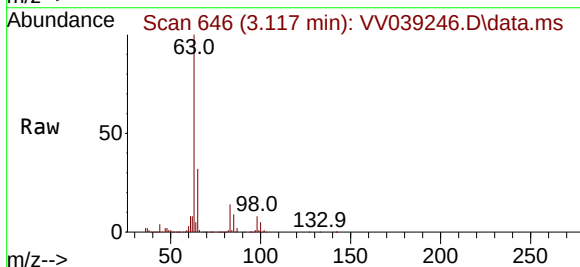
Tgt Ion: 63 Resp: 307499

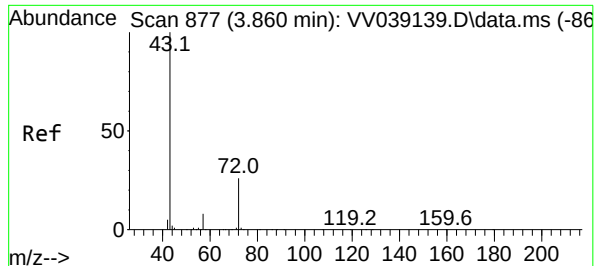
Ion Ratio Lower Upper

63 100

98 7.8 3.4 10.2

100 4.5 2.2 6.6





#25

2-Butanone

Concen: 93.540 ug/l

RT: 3.870 min Scan# 81

Delta R.T. 0.010 min

Lab File: VV039246.D

Acq: 03 Oct 2025 13:29

Instrument :

MSVOA_V

ClientSampleId :

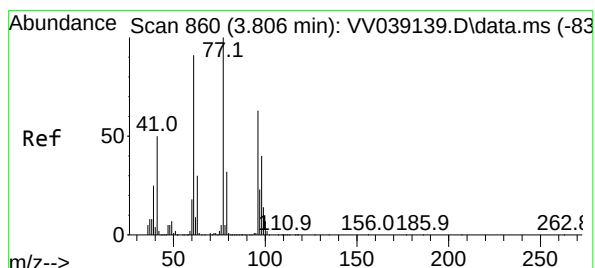
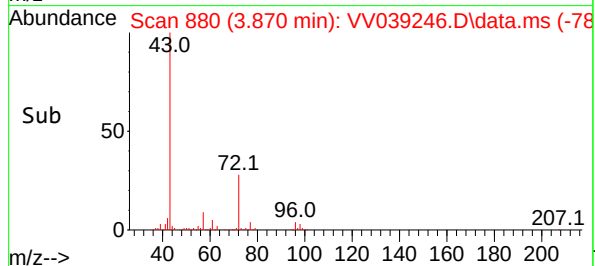
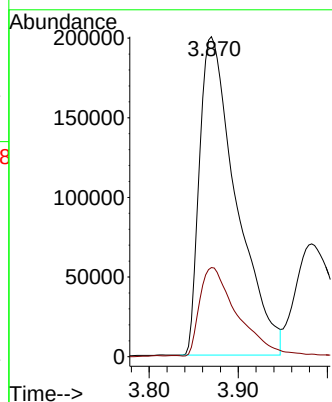
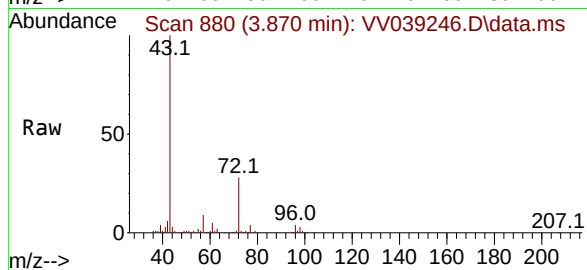
VV1003WBSD01

Tgt Ion: 43 Resp: 575336

Ion Ratio Lower Upper

43 100

72 27.7 21.0 31.6



#26

2,2-Dichloropropane

Concen: 17.501 ug/l

RT: 3.815 min Scan# 863

Delta R.T. 0.010 min

Lab File: VV039246.D

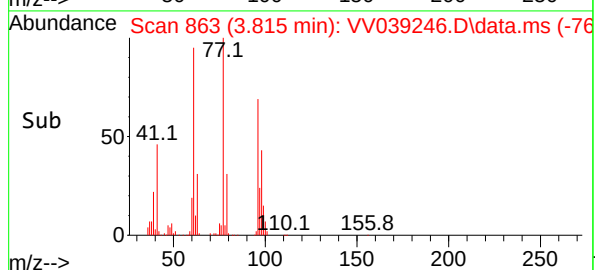
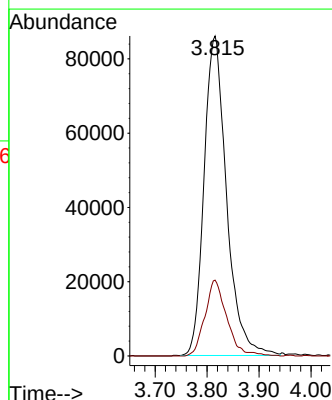
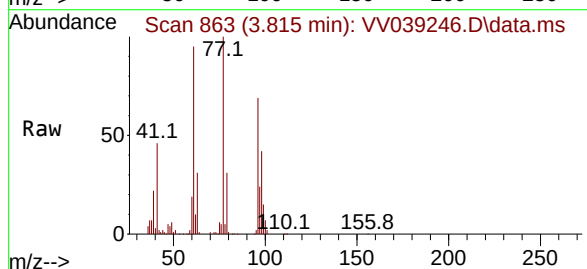
Acq: 03 Oct 2025 13:29

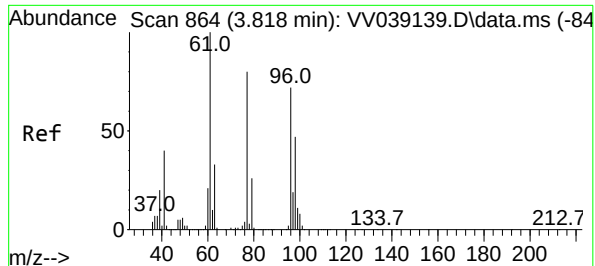
Tgt Ion: 77 Resp: 259507

Ion Ratio Lower Upper

77 100

97 23.1 11.6 34.7

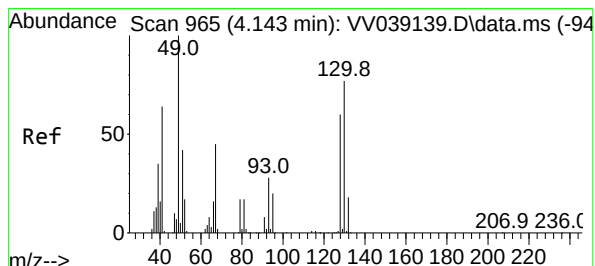
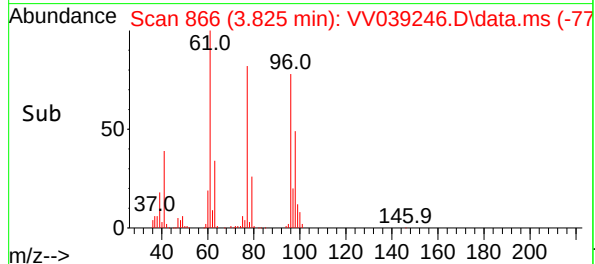
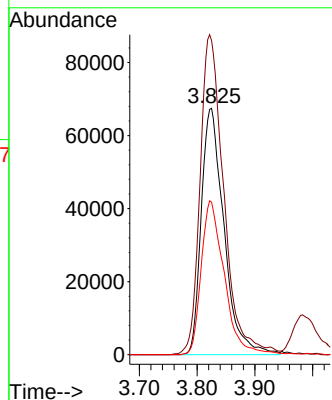
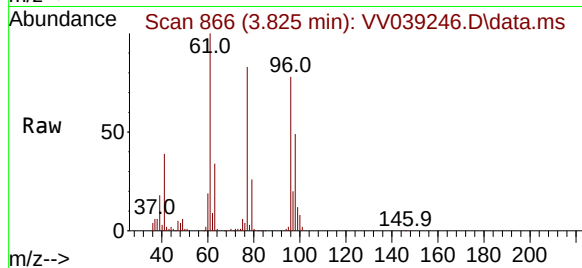




#27
 cis-1,2-Dichloroethene
 Concen: 19.640 ug/l
 RT: 3.825 min Scan# 864
 Delta R.T. 0.006 min
 Lab File: VV039246.D
 Acq: 03 Oct 2025 13:29

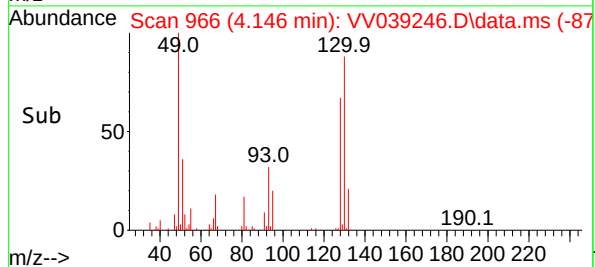
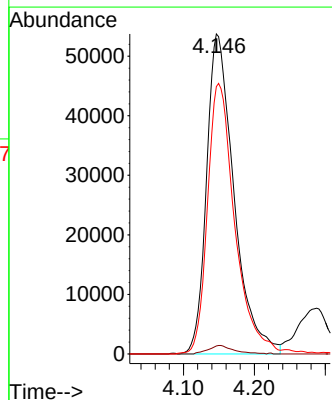
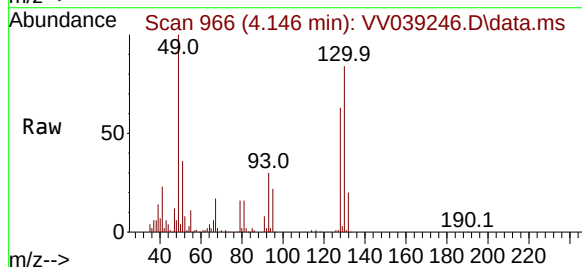
Instrument :
 MSVOA_V
 ClientSampleId :
 VV1003WBSD01

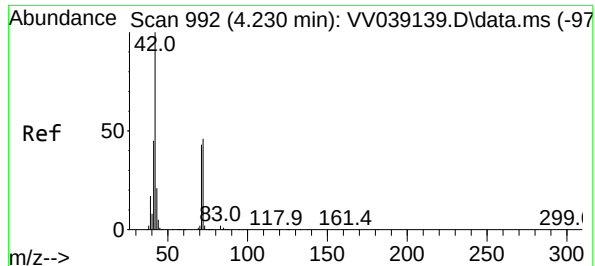
Tgt Ion: 96 Resp: 184518
 Ion Ratio Lower Upper
 96 100
 61 134.3 0.0 286.4
 98 63.2 0.0 126.6



#28
 Bromochloromethane
 Concen: 19.566 ug/l
 RT: 4.146 min Scan# 966
 Delta R.T. 0.003 min
 Lab File: VV039246.D
 Acq: 03 Oct 2025 13:29

Tgt Ion: 49 Resp: 144451
 Ion Ratio Lower Upper
 49 100
 129 2.5 0.0 4.2
 130 83.8 60.2 90.2





#29

Tetrahydrofuran

Concen: 92.448 ug/l

RT: 4.240 min Scan# 992

Delta R.T. 0.010 min

Lab File: VV039246.D

Acq: 03 Oct 2025 13:29

Instrument :

MSVOA_V

ClientSampleId :

VV1003WBSD01

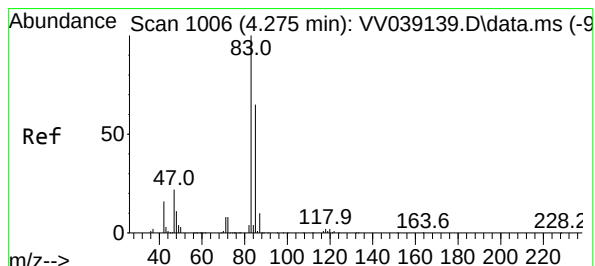
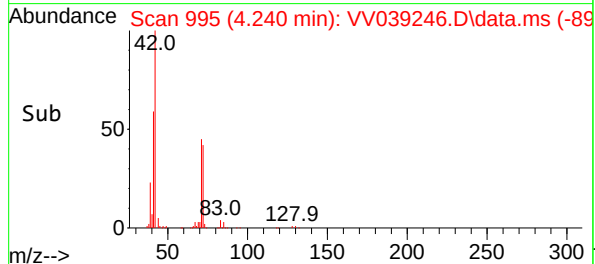
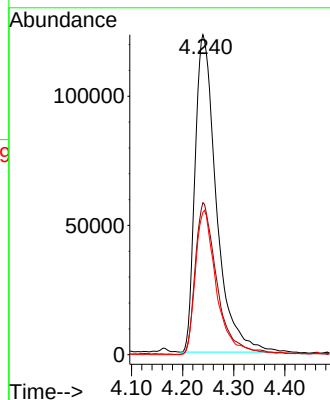
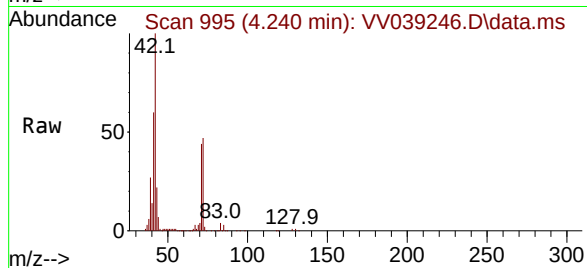
Tgt Ion: 42 Resp: 355912

Ion Ratio Lower Upper

42 100

72 47.9 36.3 54.5

71 45.4 34.3 51.5



#30

Chloroform

Concen: 18.241 ug/l

RT: 4.281 min Scan# 1008

Delta R.T. 0.006 min

Lab File: VV039246.D

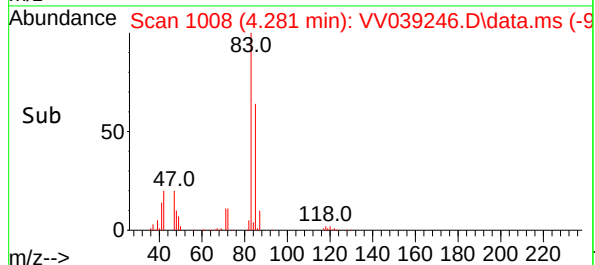
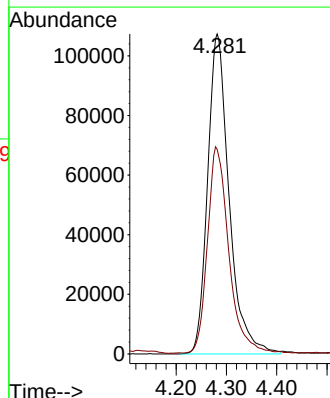
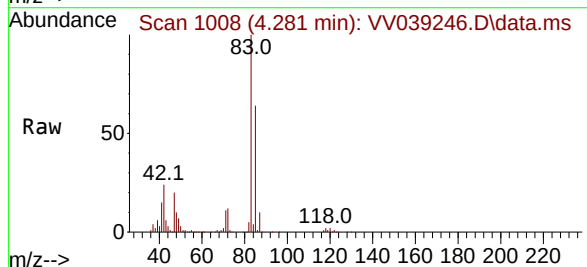
Acq: 03 Oct 2025 13:29

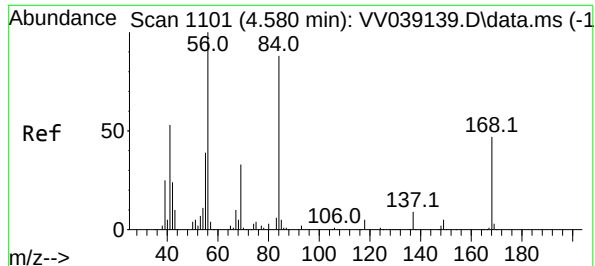
Tgt Ion: 83 Resp: 318542

Ion Ratio Lower Upper

83 100

85 63.6 52.1 78.1





#31

Cyclohexane

Concen: 16.259 ug/l

RT: 4.584 min Scan# 1101

Delta R.T. 0.003 min

Lab File: VV039246.D

Acq: 03 Oct 2025 13:29

Instrument :

MSVOA_V

ClientSampleId :

VV1003WBSD01

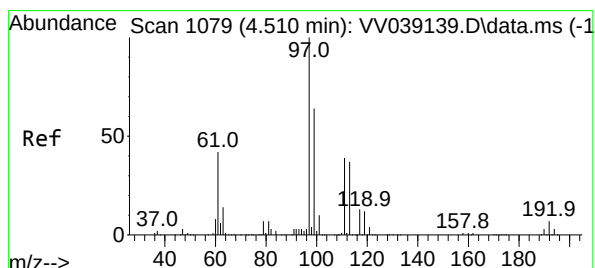
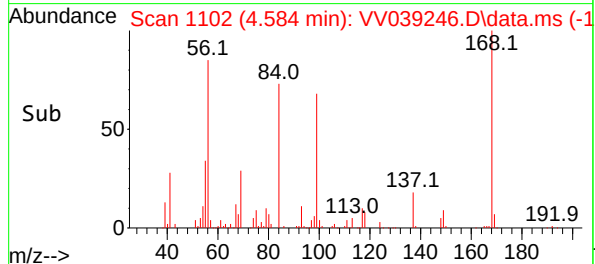
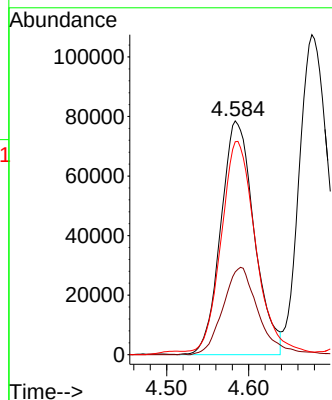
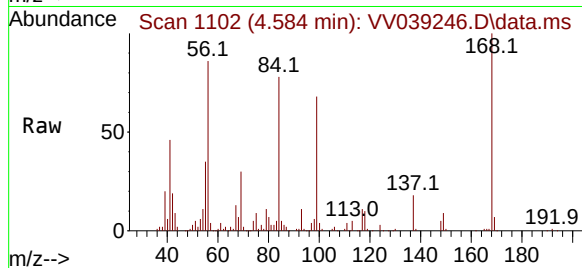
Tgt Ion: 56 Resp: 222742

Ion Ratio Lower Upper

56 100

69 35.2 26.2 39.2

84 89.7 70.3 105.5



#32

1,1,1-Trichloroethane

Concen: 18.368 ug/l

RT: 4.516 min Scan# 1081

Delta R.T. 0.006 min

Lab File: VV039246.D

Acq: 03 Oct 2025 13:29

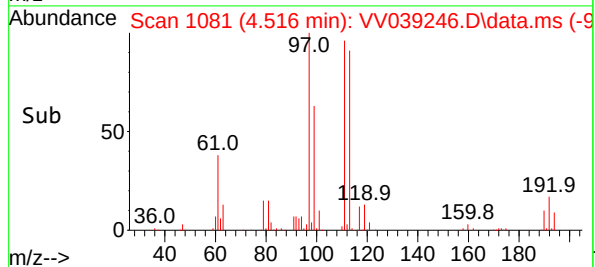
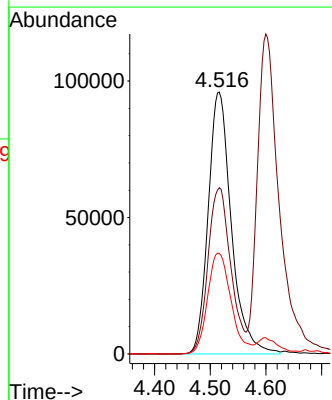
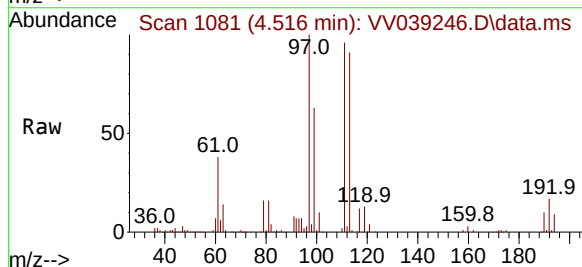
Tgt Ion: 97 Resp: 277703

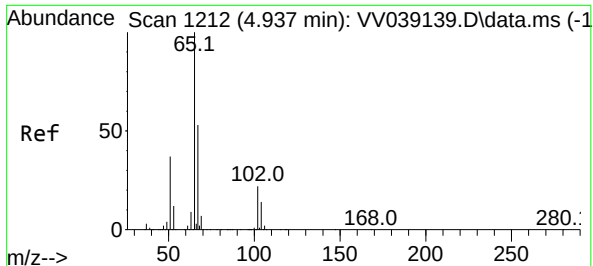
Ion Ratio Lower Upper

97 100

99 62.3 49.6 74.4

61 39.2 34.5 51.7





#33

1,2-Dichloroethane-d4

Concen: 42.788 ug/l

RT: 4.944 min Scan# 11

Delta R.T. 0.006 min

Lab File: VV039246.D

Acq: 03 Oct 2025 13:29

Instrument :

MSVOA_V

ClientSampleId :

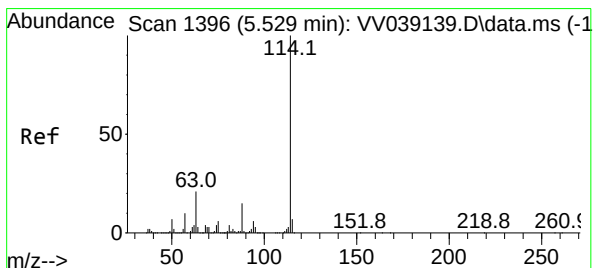
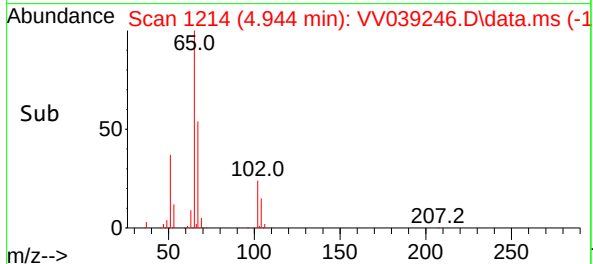
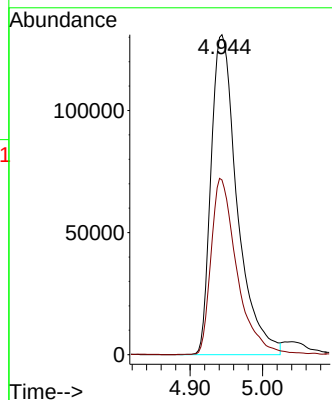
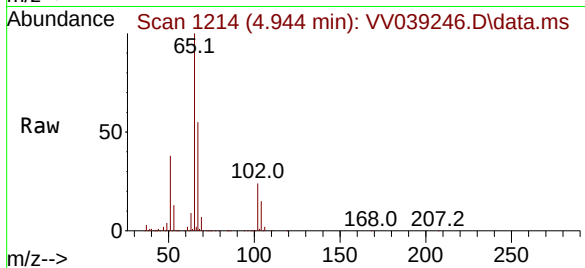
VV1003WBSD01

Tgt Ion: 65 Resp: 328654

Ion Ratio Lower Upper

65 100

67 54.3 0.0 107.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.535 min Scan# 1398

Delta R.T. 0.006 min

Lab File: VV039246.D

Acq: 03 Oct 2025 13:29

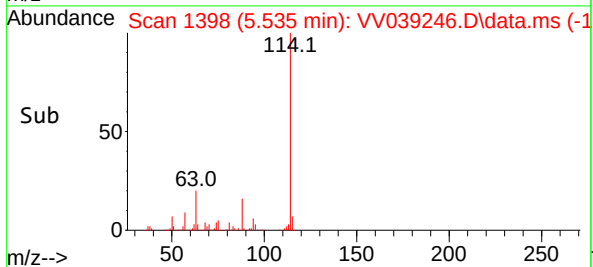
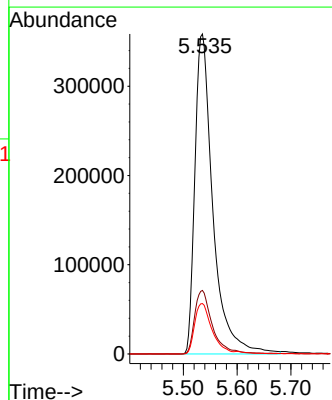
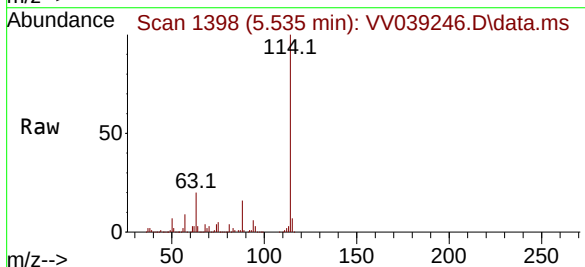
Tgt Ion: 114 Resp: 834883

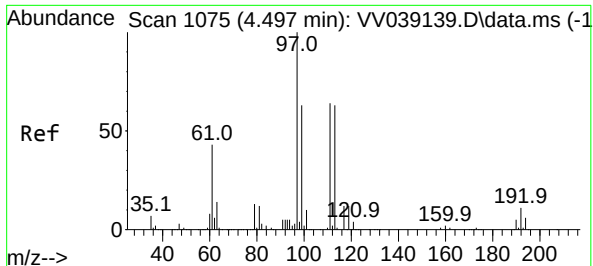
Ion Ratio Lower Upper

114 100

63 19.8 0.0 42.6

88 15.8 0.0 30.8





#35

Dibromofluoromethane

Concen: 48.578 ug/l

RT: 4.503 min Scan# 1107

Delta R.T. 0.006 min

Lab File: VV039246.D

Acq: 03 Oct 2025 13:29

Instrument :

MSVOA_V

ClientSampleId :

VV1003WBSD01

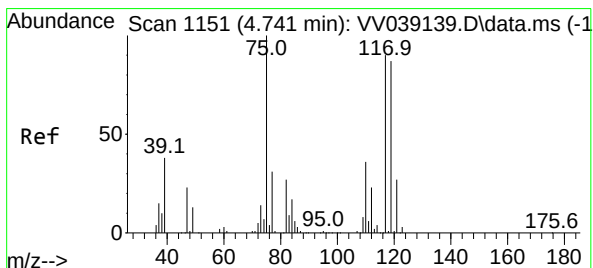
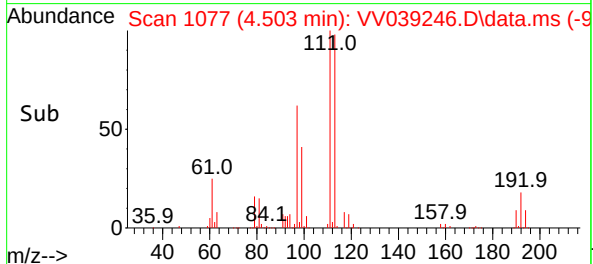
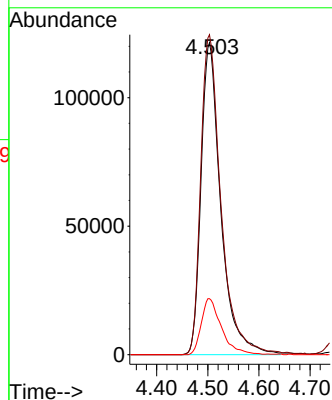
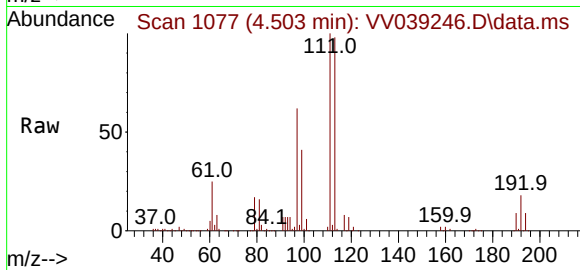
Tgt Ion:113 Resp: 326044

Ion Ratio Lower Upper

113 100

111 105.2 82.4 123.6

192 18.3 13.8 20.8



#36

1,1-Dichloropropene

Concen: 18.613 ug/l

RT: 4.748 min Scan# 1153

Delta R.T. 0.007 min

Lab File: VV039246.D

Acq: 03 Oct 2025 13:29

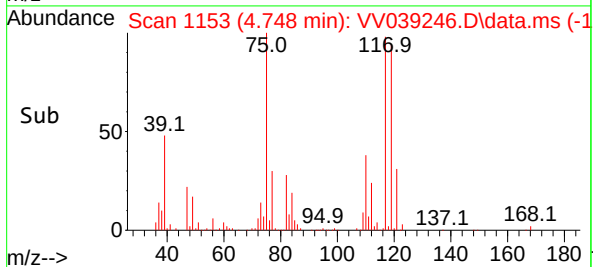
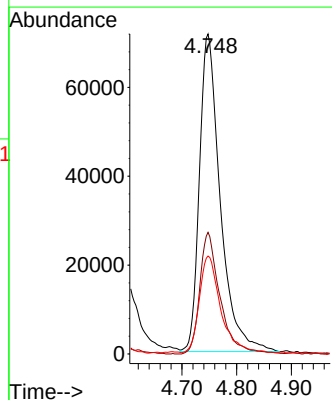
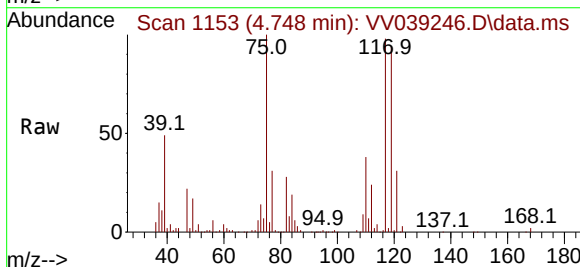
Tgt Ion: 75 Resp: 188879

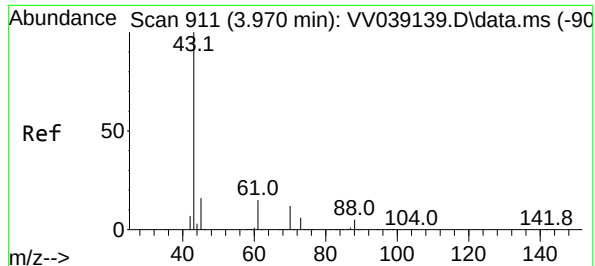
Ion Ratio Lower Upper

75 100

110 37.4 18.1 54.1

77 30.8 24.8 37.2





#37

Ethyl Acetate

Concen: 17.798 ug/l

RT: 3.982 min Scan# 911

Delta R.T. 0.012 min

Lab File: VV039246.D

Acq: 03 Oct 2025 13:29

Instrument :

MSVOA_V

ClientSampleId :

VV1003WBSD01

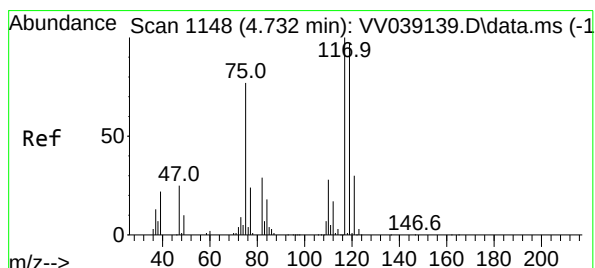
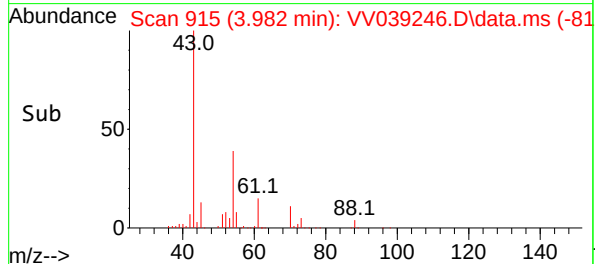
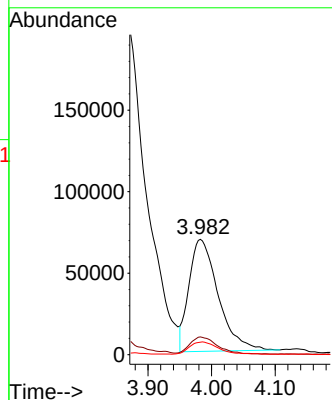
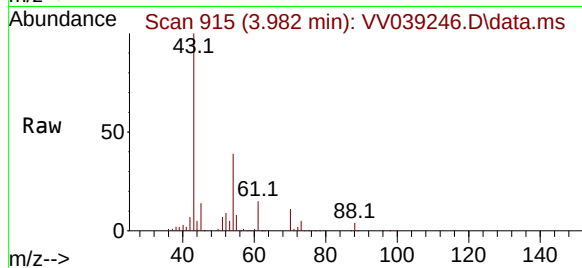
Tgt Ion: 43 Resp: 219152

Ion Ratio Lower Upper

43 100

61 13.9 10.3 15.5

70 10.4 8.0 12.0



#38

Carbon Tetrachloride

Concen: 18.800 ug/l

RT: 4.738 min Scan# 1150

Delta R.T. 0.006 min

Lab File: VV039246.D

Acq: 03 Oct 2025 13:29

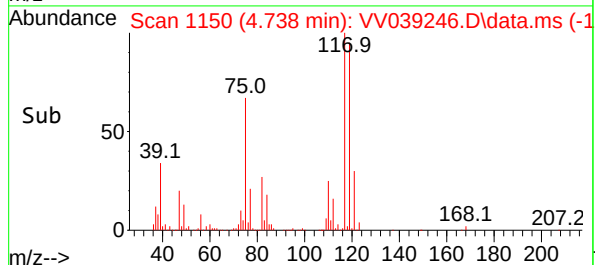
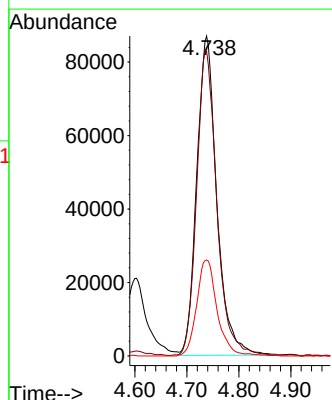
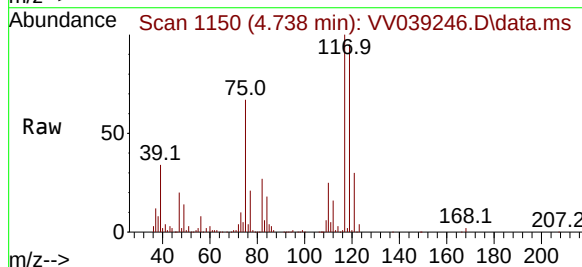
Tgt Ion: 117 Resp: 233151

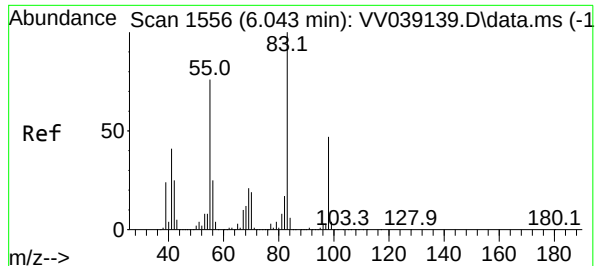
Ion Ratio Lower Upper

117 100

119 95.2 77.2 115.8

121 30.1 24.2 36.2





#39

Methylcyclohexane

Concen: 16.976 ug/l

RT: 6.047 min Scan# 1

Delta R.T. 0.004 min

Lab File: VV039246.D

Acq: 03 Oct 2025 13:29

Instrument :

MSVOA_V

ClientSampleId :

VV1003WBSD01

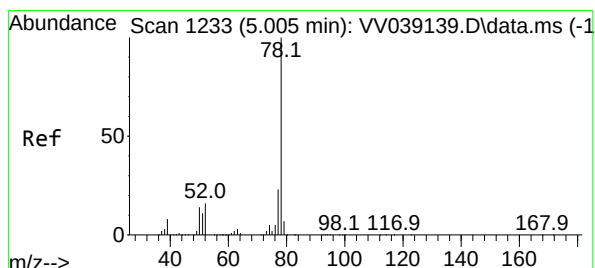
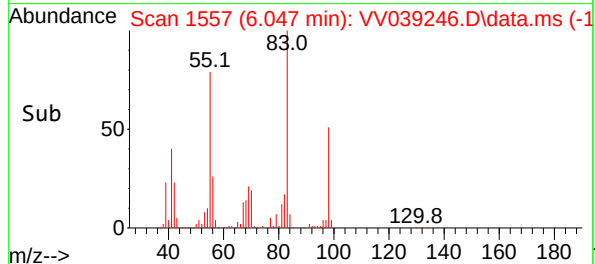
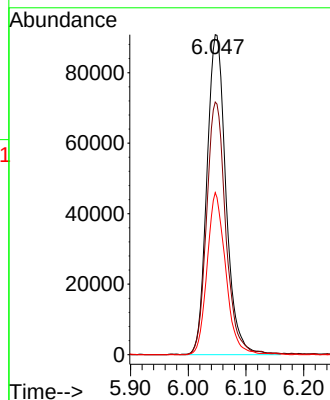
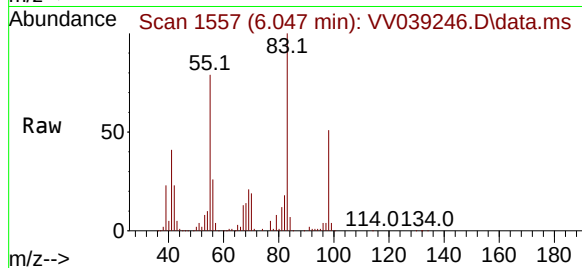
Tgt Ion: 83 Resp: 208027

Ion Ratio Lower Upper

83 100

55 79.0 60.5 90.7

98 50.7 37.8 56.6



#40

Benzene

Concen: 19.301 ug/l

RT: 5.011 min Scan# 1235

Delta R.T. 0.006 min

Lab File: VV039246.D

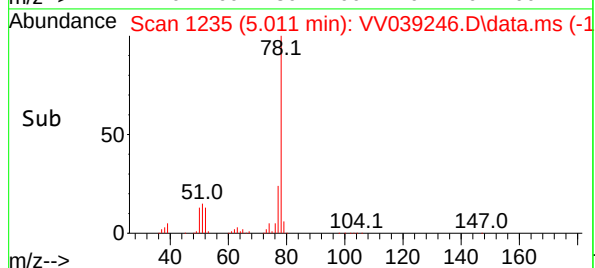
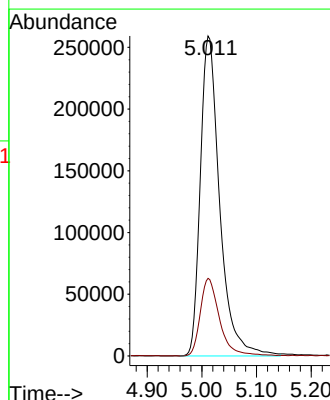
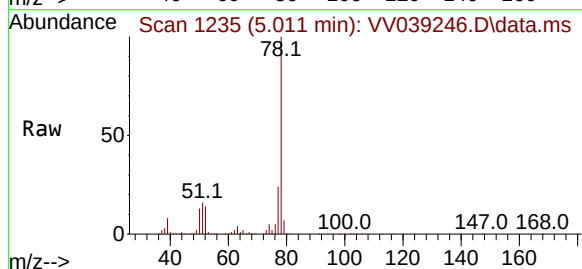
Acq: 03 Oct 2025 13:29

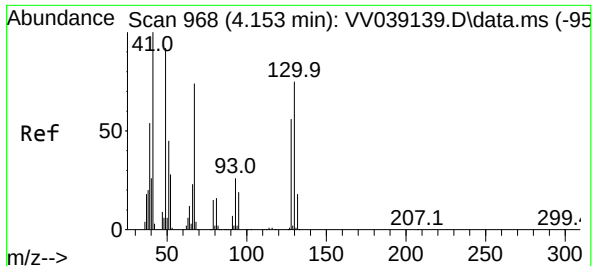
Tgt Ion: 78 Resp: 637793

Ion Ratio Lower Upper

78 100

77 24.3 18.7 28.1



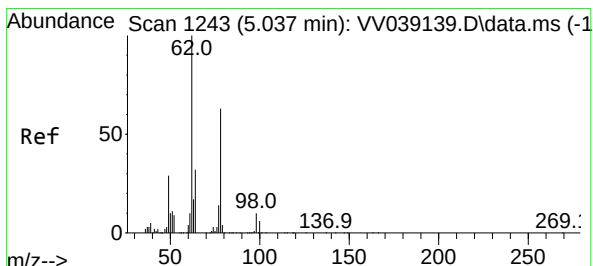
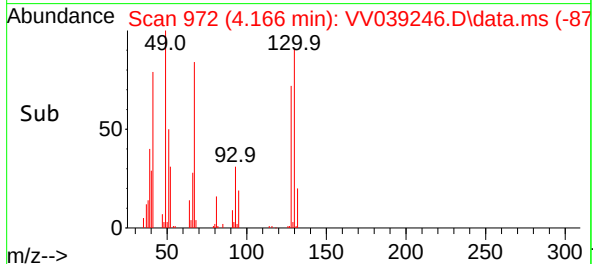
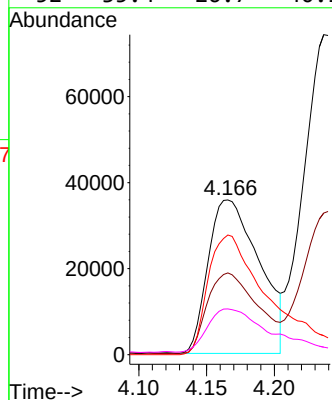
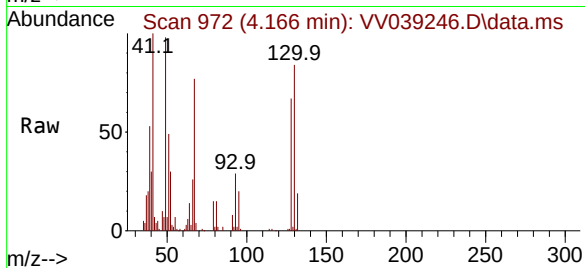


#41
Methacrylonitrile
Concen: 18.084 ug/l
RT: 4.166 min Scan# 91
Delta R.T. 0.013 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBSD01

Tgt Ion: 41 Resp: 93622

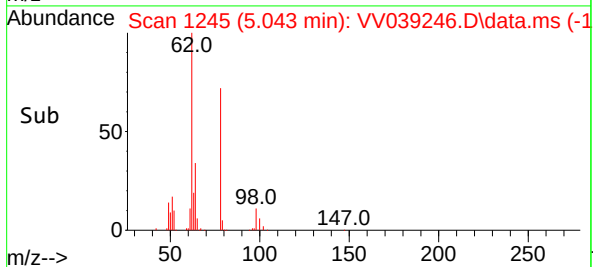
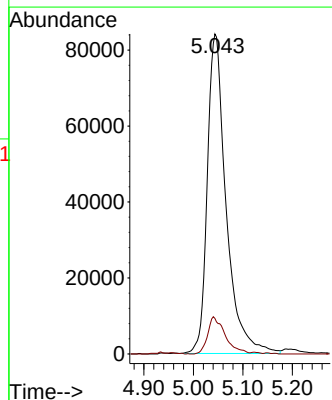
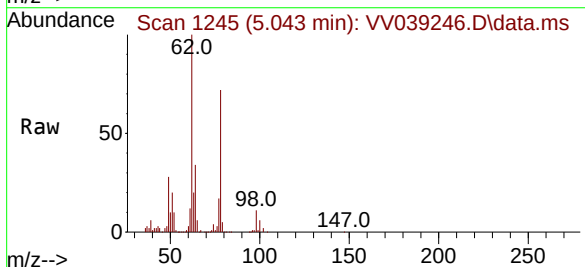
Ion	Ratio	Lower	Upper
41	100		
39	52.4	42.2	63.2
67	93.5	67.9	101.9
52	35.4	26.7	40.1

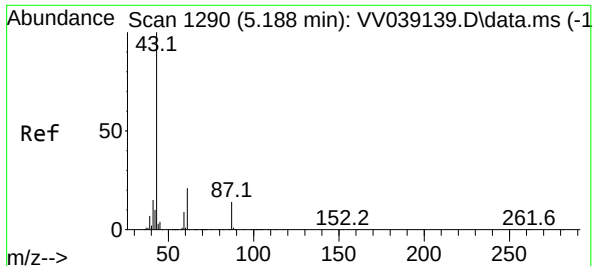


#42
1,2-Dichloroethane
Concen: 19.138 ug/l
RT: 5.043 min Scan# 1245
Delta R.T. 0.006 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Tgt Ion: 62 Resp: 221588

Ion	Ratio	Lower	Upper
62	100		
98	10.9	0.0	19.2





#43

Isopropyl Acetate

Concen: 19.491 ug/l

RT: 5.198 min Scan# 11

Delta R.T. 0.010 min

Lab File: VV039246.D

Acq: 03 Oct 2025 13:29

Instrument :

MSVOA_V

ClientSampleId :

VV1003WBSD01

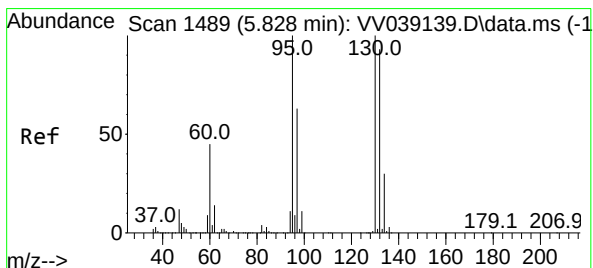
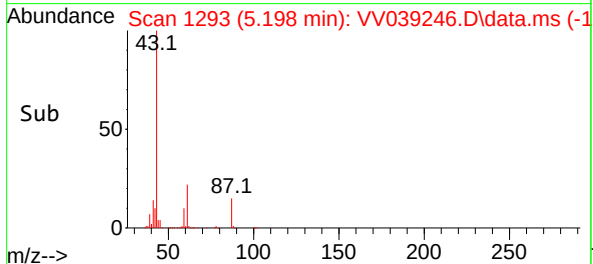
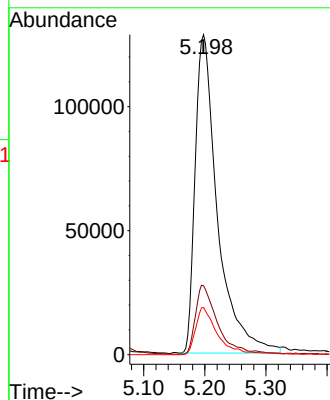
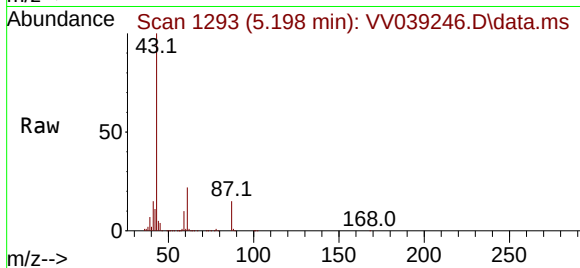
Tgt Ion: 43 Resp: 327228

Ion Ratio Lower Upper

43 100

61 20.7 15.9 23.9

87 14.3 11.0 16.6



#44

Trichloroethene

Concen: 20.259 ug/l

RT: 5.834 min Scan# 1491

Delta R.T. 0.006 min

Lab File: VV039246.D

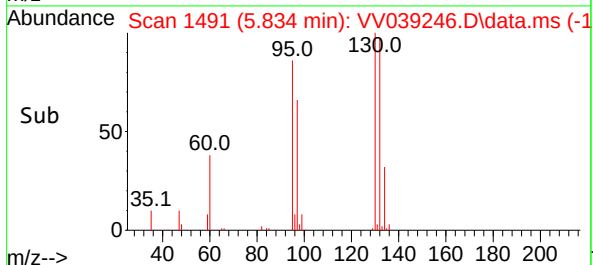
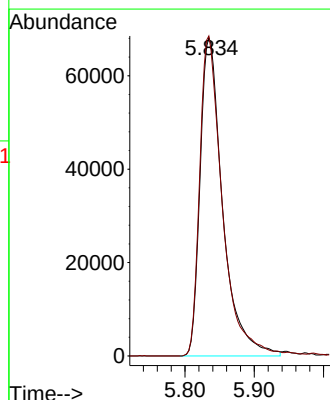
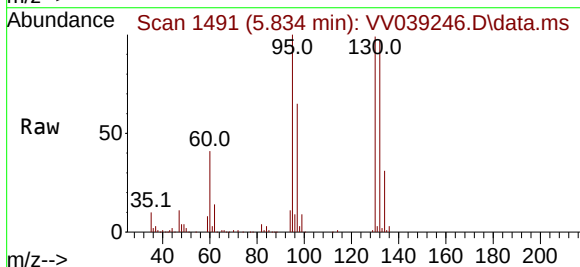
Acq: 03 Oct 2025 13:29

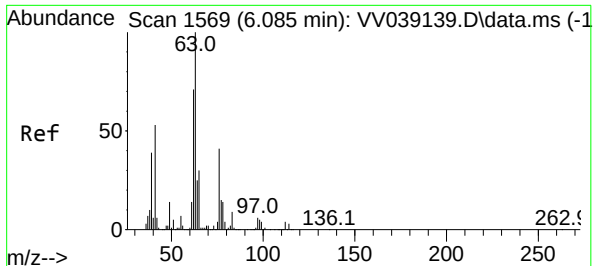
Tgt Ion: 130 Resp: 154476

Ion Ratio Lower Upper

130 100

95 100.6 0.0 199.2





#45

1,2-Dichloropropane

Concen: 19.078 ug/l

RT: 6.092 min Scan# 1569

Delta R.T. 0.006 min

Lab File: VV039246.D

Acq: 03 Oct 2025 13:29

Instrument :

MSVOA_V

ClientSampleId :

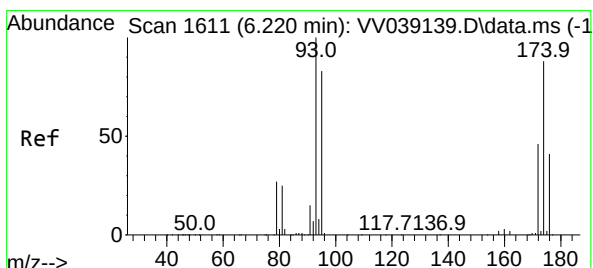
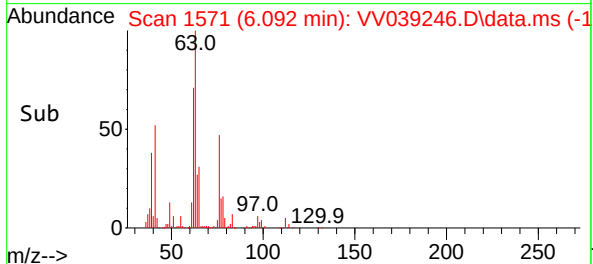
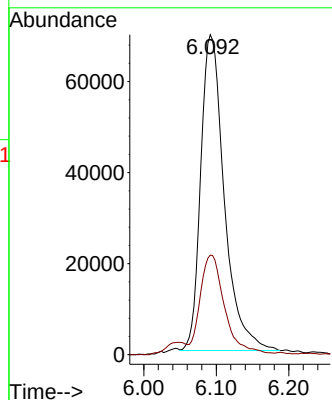
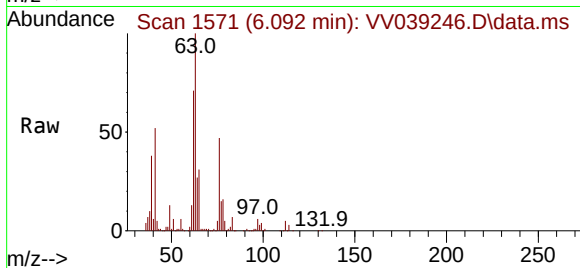
VV1003WBSD01

Tgt Ion: 63 Resp: 156695

Ion Ratio Lower Upper

63 100

65 30.8 23.7 35.5



#46

Dibromomethane

Concen: 20.117 ug/l

RT: 6.227 min Scan# 1613

Delta R.T. 0.006 min

Lab File: VV039246.D

Acq: 03 Oct 2025 13:29

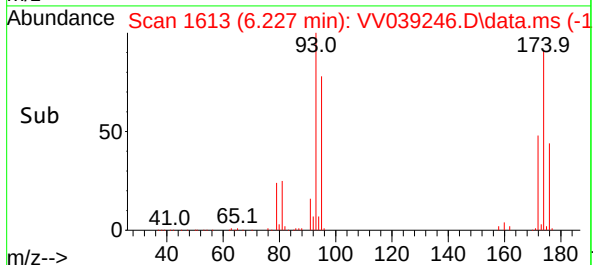
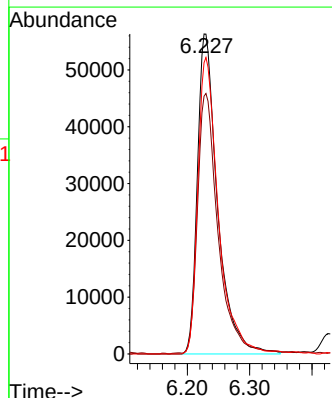
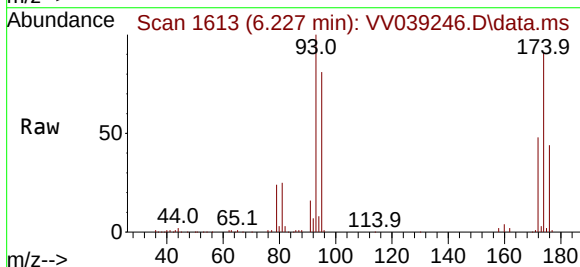
Tgt Ion: 93 Resp: 126461

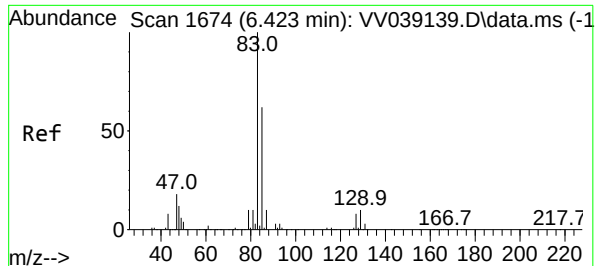
Ion Ratio Lower Upper

93 100

95 82.4 65.5 98.3

174 94.5 69.0 103.4





#47

Bromodichloromethane

Concen: 19.436 ug/l

RT: 6.429 min Scan# 1

Delta R.T. 0.006 min

Lab File: VV039246.D

Acq: 03 Oct 2025 13:29

Instrument :

MSVOA_V

ClientSampleId :

VV1003WBSD01

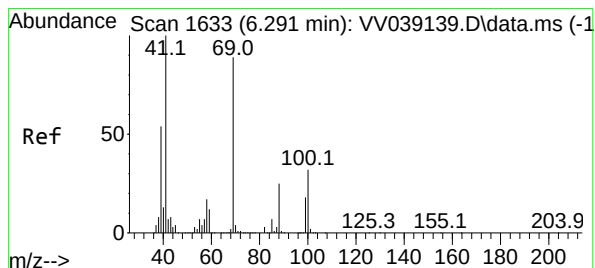
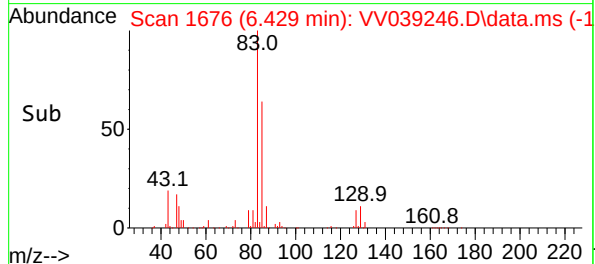
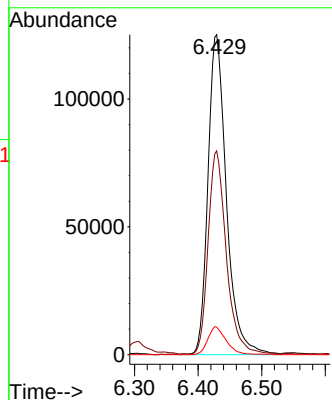
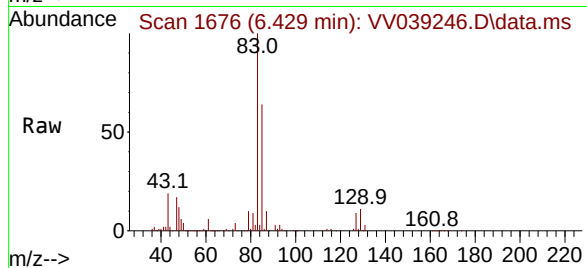
Tgt Ion: 83 Resp: 252593

Ion Ratio Lower Upper

83 100

85 63.5 49.7 74.5

127 8.6 6.6 9.8



#48

Methyl methacrylate

Concen: 19.024 ug/l

RT: 6.301 min Scan# 1636

Delta R.T. 0.010 min

Lab File: VV039246.D

Acq: 03 Oct 2025 13:29

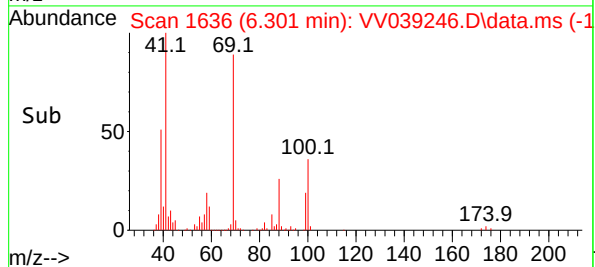
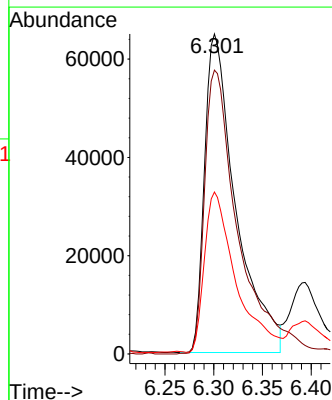
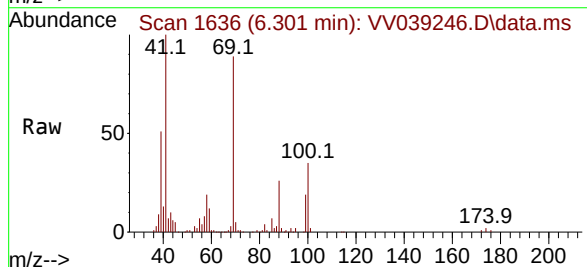
Tgt Ion: 41 Resp: 144785

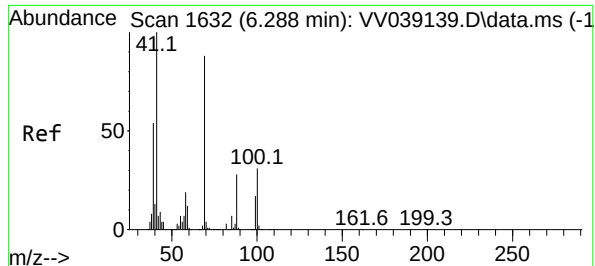
Ion Ratio Lower Upper

41 100

69 96.7 72.4 108.6

39 51.1 42.5 63.7





#49

1,4-Dioxane

Concen: 358.959 ug/l

RT: 6.294 min Scan# 1

Delta R.T. 0.006 min

Lab File: VV039246.D

Acq: 03 Oct 2025 13:29

Instrument :

MSVOA_V

ClientSampleId :

VV1003WBSD01

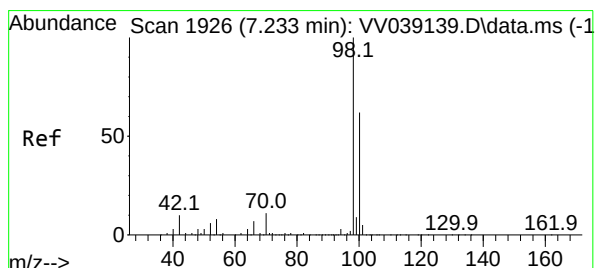
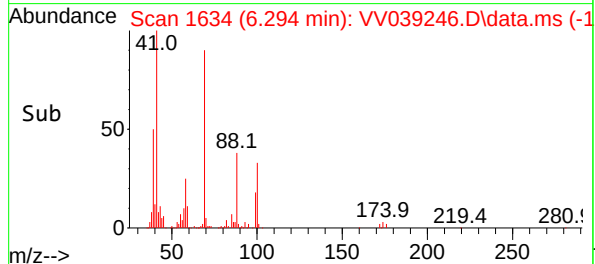
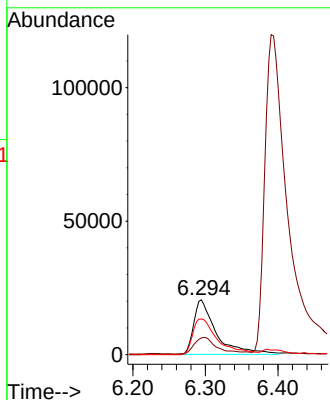
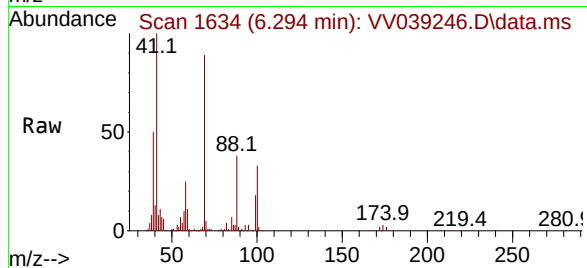
Tgt Ion: 88 Resp: 44086

Ion Ratio Lower Upper

88 100

43 30.2 25.1 37.7

58 72.3 53.6 80.4



#50

Toluene-d8

Concen: 45.278 ug/l

RT: 7.236 min Scan# 1927

Delta R.T. 0.003 min

Lab File: VV039246.D

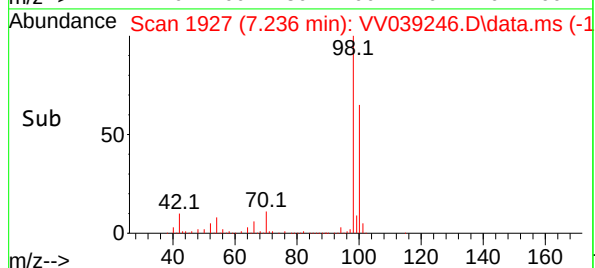
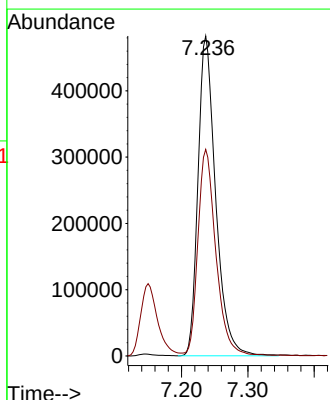
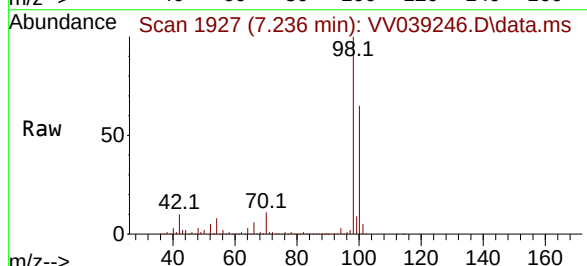
Acq: 03 Oct 2025 13:29

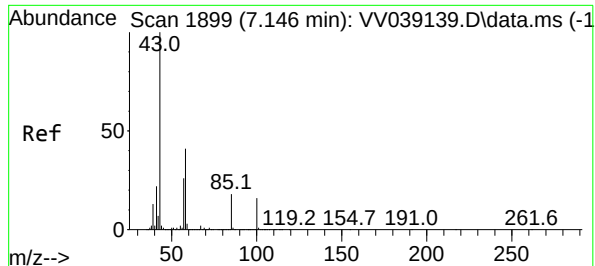
Tgt Ion: 98 Resp: 892549

Ion Ratio Lower Upper

98 100

100 65.4 52.2 78.2

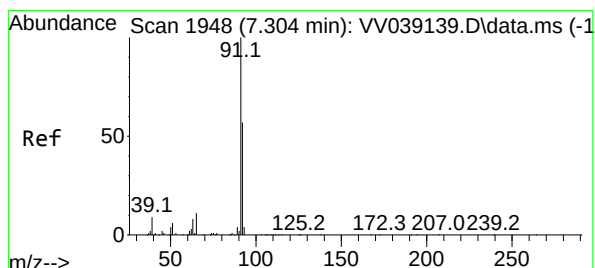
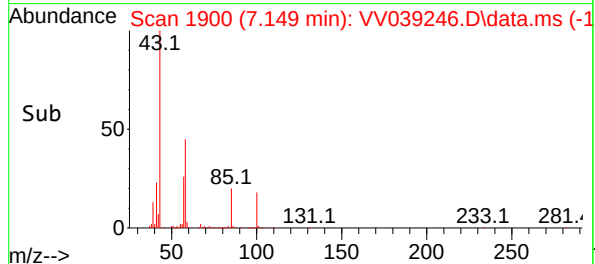
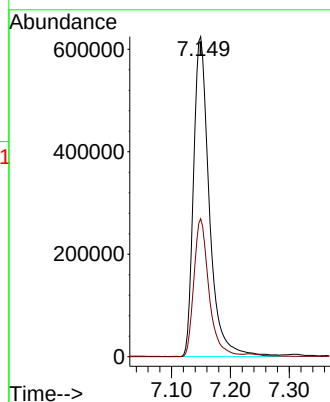
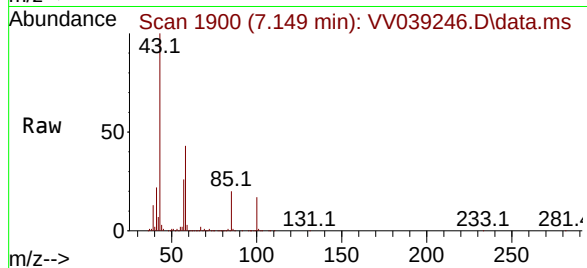




#51
4-Methyl-2-Pentanone
Concen: 105.425 ug/l
RT: 7.149 min Scan# 1900
Delta R.T. 0.003 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

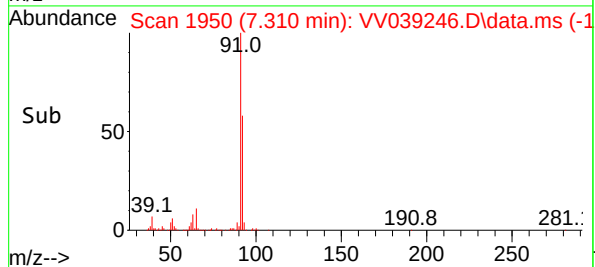
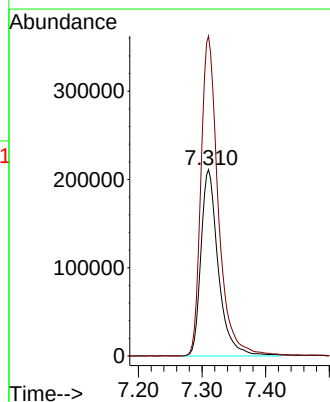
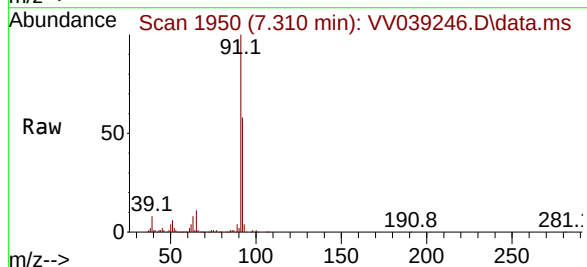
Instrument :
MSVOA_V
ClientSampleId :
VV1003WBSD01

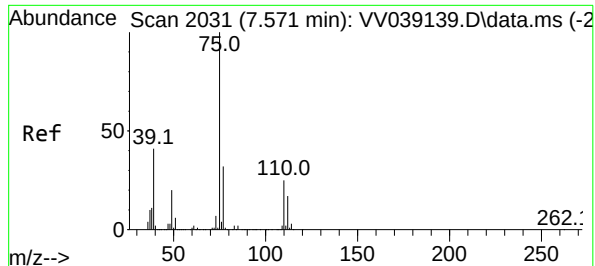
Tgt Ion: 43 Resp: 1164431
Ion Ratio Lower Upper
43 100
58 41.3 32.3 48.5



#52
Toluene
Concen: 20.898 ug/l
RT: 7.310 min Scan# 1950
Delta R.T. 0.006 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Tgt Ion: 92 Resp: 400377
Ion Ratio Lower Upper
92 100
91 171.4 139.2 208.8





#53

t-1,3-Dichloropropene

Concen: 21.288 ug/l

RT: 7.577 min Scan# 2031

Delta R.T. 0.006 min

Lab File: VV039246.D

Acq: 03 Oct 2025 13:29

Instrument :

MSVOA_V

ClientSampleId :

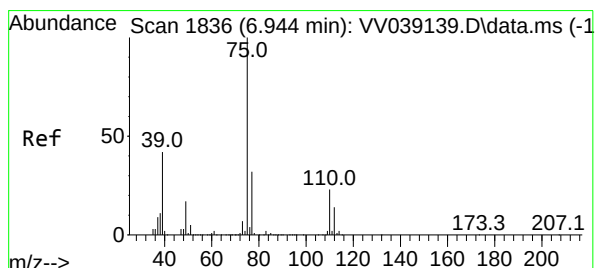
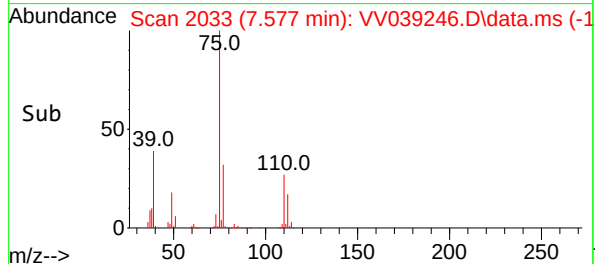
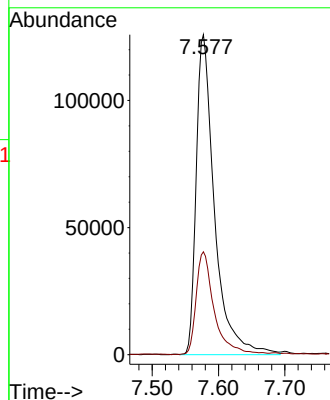
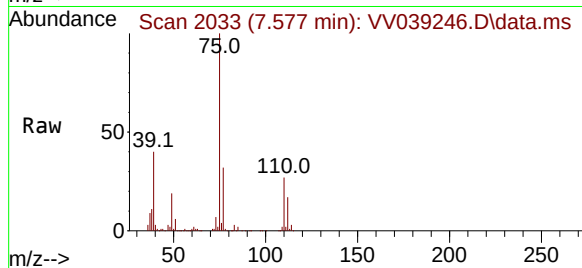
VV1003WBSD01

Tgt Ion: 75 Resp: 241108

Ion Ratio Lower Upper

75 100

77 32.0 25.9 38.9



#54

cis-1,3-Dichloropropene

Concen: 21.095 ug/l

RT: 6.950 min Scan# 1838

Delta R.T. 0.006 min

Lab File: VV039246.D

Acq: 03 Oct 2025 13:29

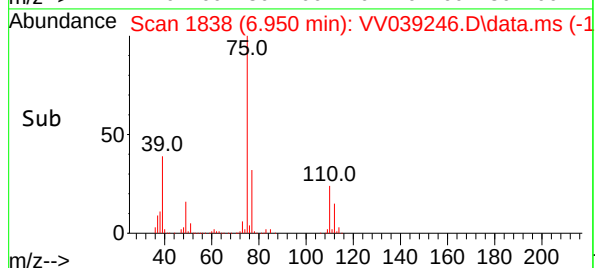
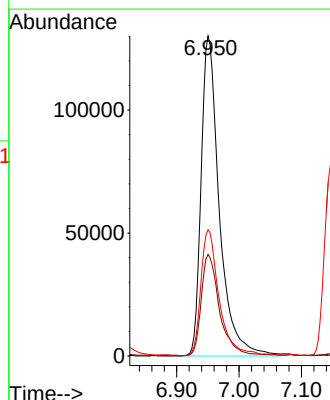
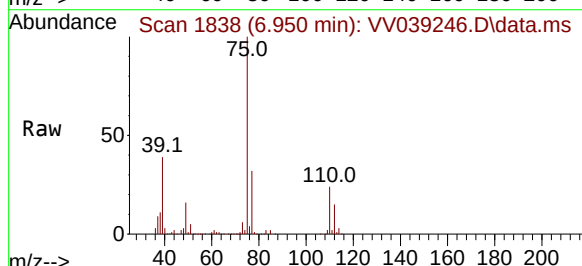
Tgt Ion: 75 Resp: 263751

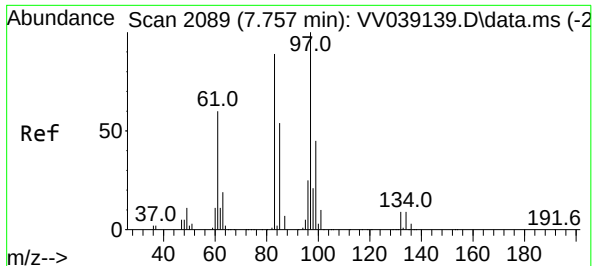
Ion Ratio Lower Upper

75 100

77 31.7 25.5 38.3

39 39.3 33.8 50.6





#55

1,1,2-Trichloroethane

Concen: 20.392 ug/l

RT: 7.760 min Scan# 2089

Delta R.T. 0.003 min

Lab File: VV039246.D

Acq: 03 Oct 2025 13:29

Instrument :

MSVOA_V

ClientSampleId :

VV1003WBSD01

Tgt Ion: 97 Resp: 175184

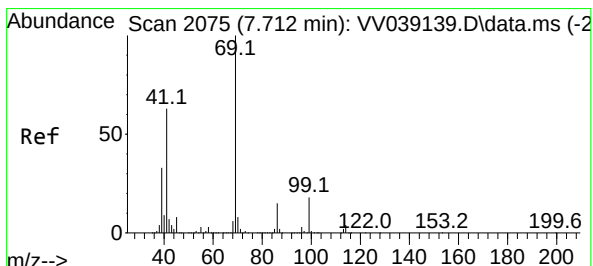
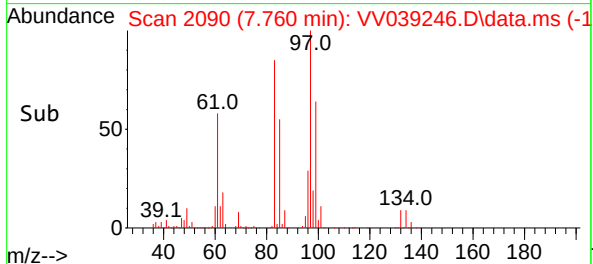
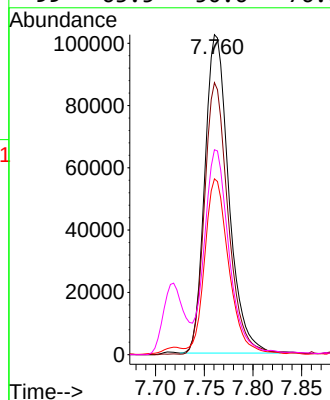
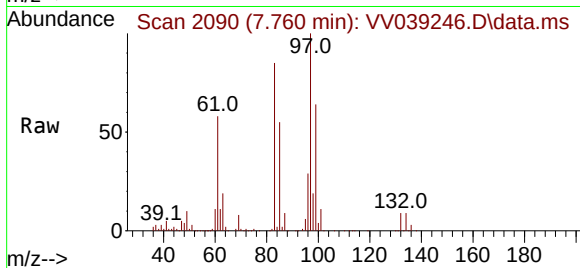
Ion Ratio Lower Upper

97 100

83 85.3 71.1 106.7

85 54.6 44.6 67.0

99 63.5 50.6 76.0



#56

Ethyl methacrylate

Concen: 21.095 ug/l

RT: 7.719 min Scan# 2077

Delta R.T. 0.007 min

Lab File: VV039246.D

Acq: 03 Oct 2025 13:29

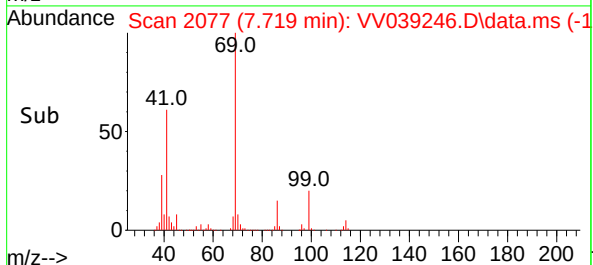
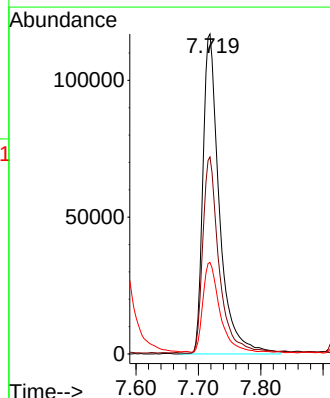
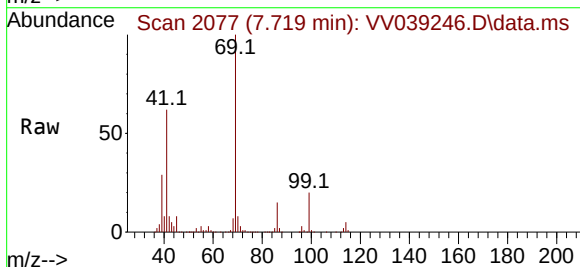
Tgt Ion: 69 Resp: 215210

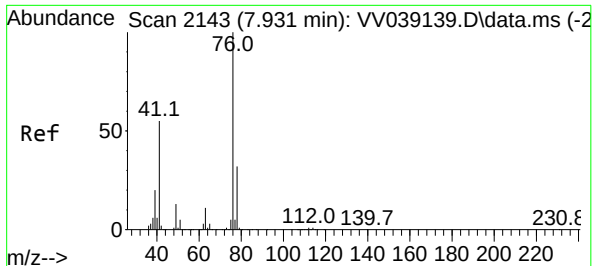
Ion Ratio Lower Upper

69 100

41 60.9 50.7 76.1

39 28.7 26.0 39.0





#57

1,3-Dichloropropane

Concen: 20.267 ug/l

RT: 7.937 min Scan# 2143

Delta R.T. 0.006 min

Lab File: VV039246.D

Acq: 03 Oct 2025 13:29

Instrument :

MSVOA_V

ClientSampleId :

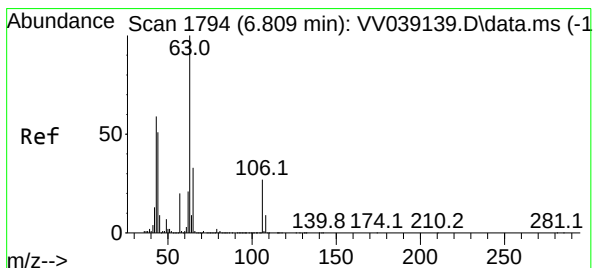
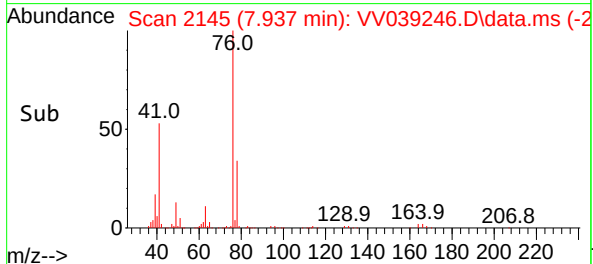
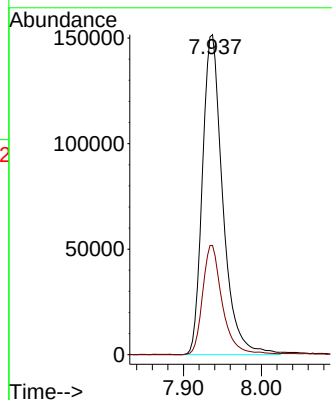
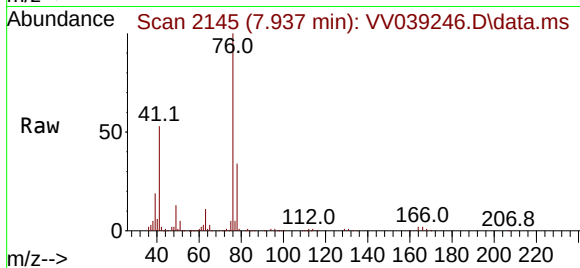
VV1003WBSD01

Tgt Ion: 76 Resp: 274772

Ion Ratio Lower Upper

76 100

78 33.2 26.1 39.1



#58

2-Chloroethyl Vinyl ether

Concen: 88.830 ug/l

RT: 6.815 min Scan# 1796

Delta R.T. 0.006 min

Lab File: VV039246.D

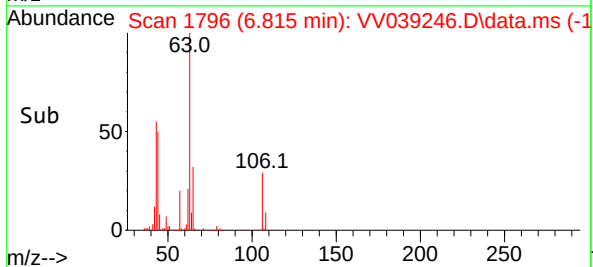
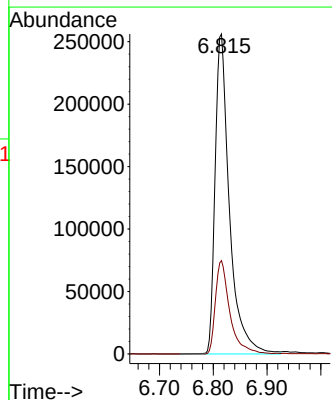
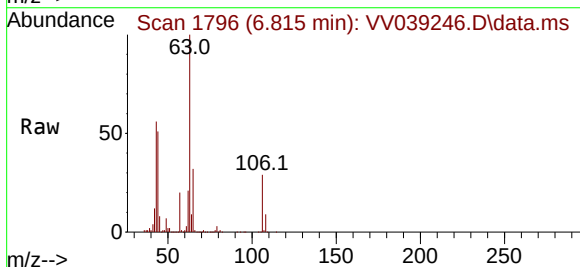
Acq: 03 Oct 2025 13:29

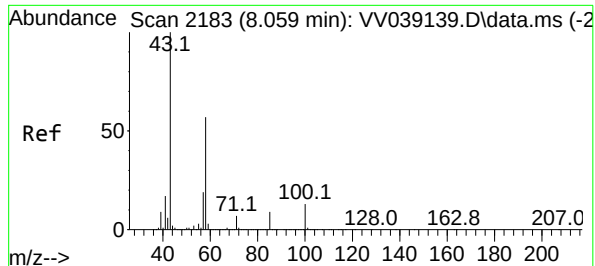
Tgt Ion: 63 Resp: 474541

Ion Ratio Lower Upper

63 100

106 29.3 22.1 33.1





#59

2-Hexanone

Concen: 95.188 ug/l

RT: 8.066 min Scan# 2185

Delta R.T. 0.007 min

Lab File: VV039246.D

Acq: 03 Oct 2025 13:29

Instrument :

MSVOA_V

ClientSampleId :

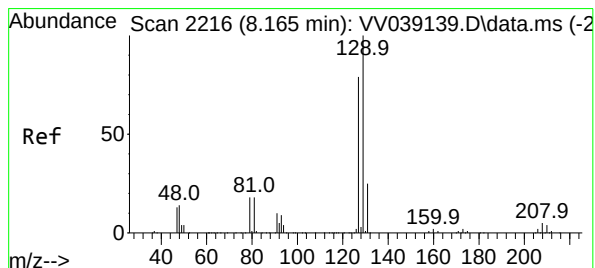
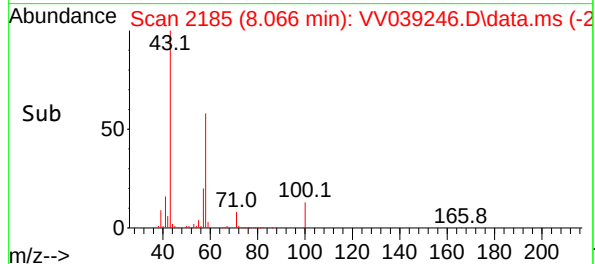
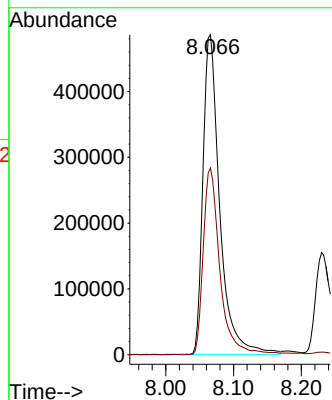
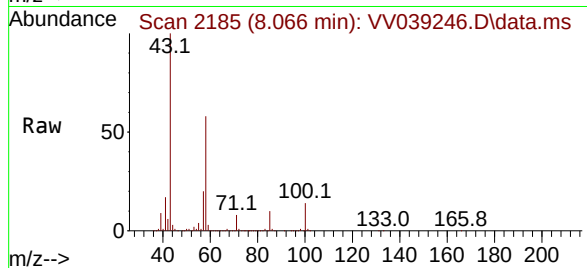
VV1003WBSD01

Tgt Ion: 43 Resp: 835694

Ion Ratio Lower Upper

43 100

58 57.4 28.3 85.0



#60

Dibromochloromethane

Concen: 20.644 ug/l

RT: 8.169 min Scan# 2217

Delta R.T. 0.003 min

Lab File: VV039246.D

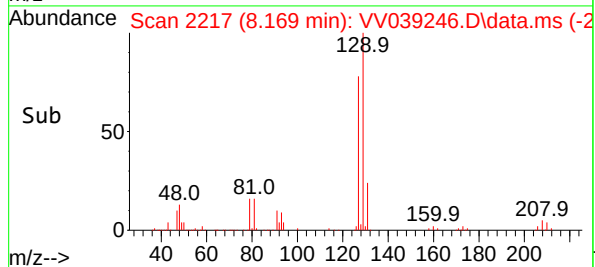
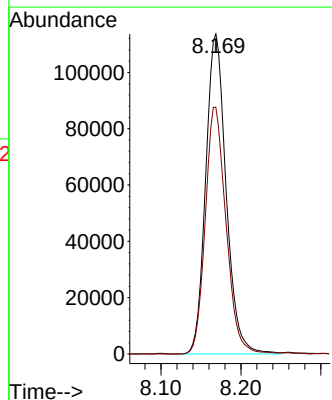
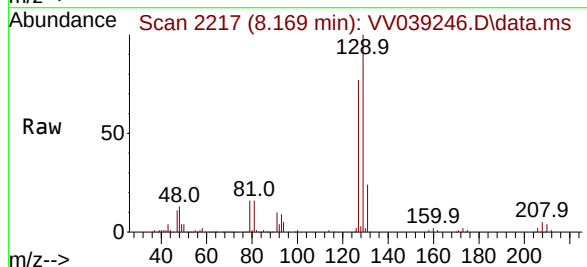
Acq: 03 Oct 2025 13:29

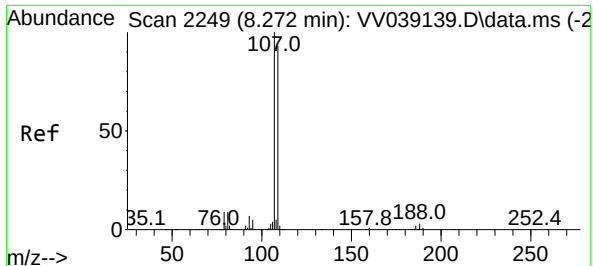
Tgt Ion: 129 Resp: 202074

Ion Ratio Lower Upper

129 100

127 78.4 39.3 117.9

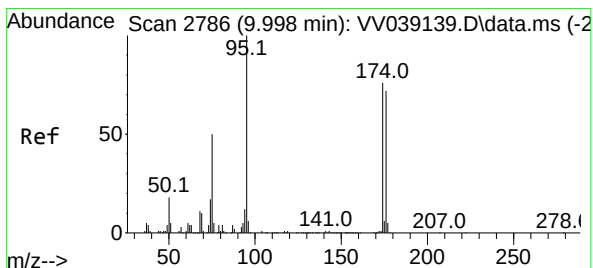
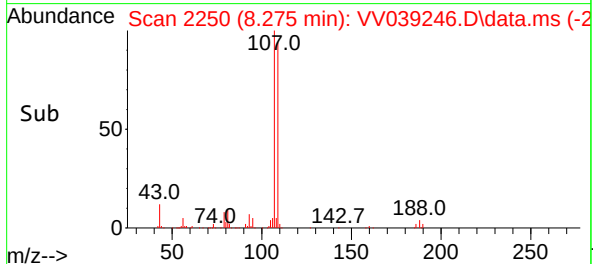
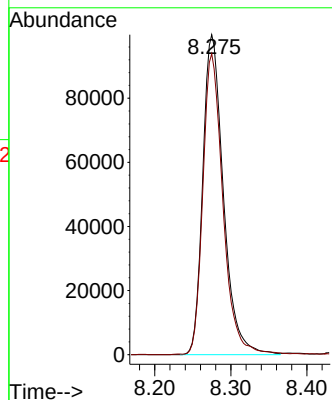
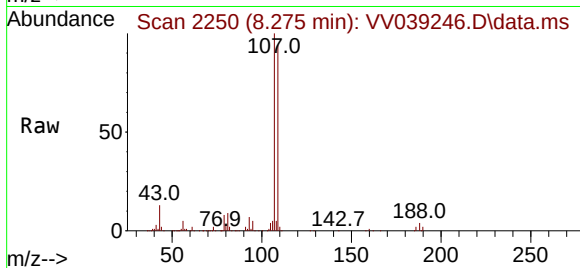




#61
1,2-Dibromoethane
Concen: 21.409 ug/l
RT: 8.275 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

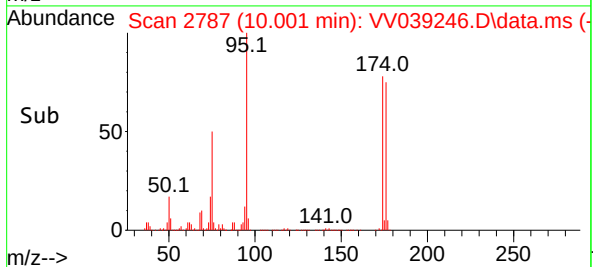
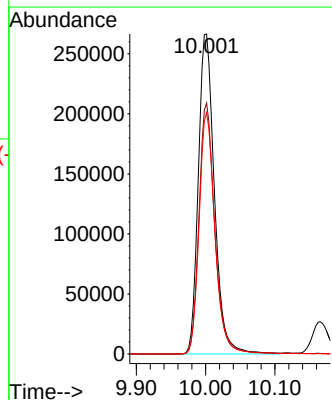
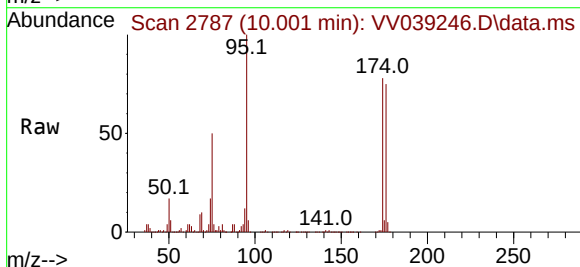
Instrument :
MSVOA_V
ClientSampleId :
VV1003WBSD01

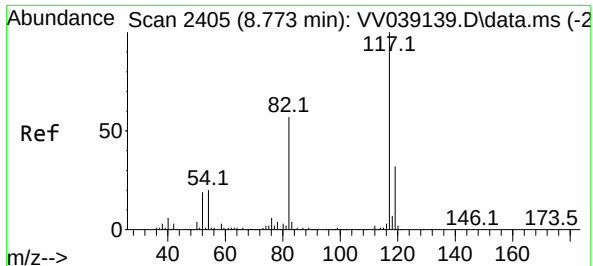
Tgt Ion:107 Resp: 188087
Ion Ratio Lower Upper
107 100
109 91.8 74.6 112.0



#62
4-Bromofluorobenzene
Concen: 53.172 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Tgt Ion: 95 Resp: 431498
Ion Ratio Lower Upper
95 100
174 76.8 0.0 150.4
176 74.2 0.0 144.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 8.776 min Scan# 2405

Delta R.T. 0.003 min

Lab File: VV039246.D

Acq: 03 Oct 2025 13:29

Instrument :

MSVOA_V

ClientSampleId :

VV1003WBSD01

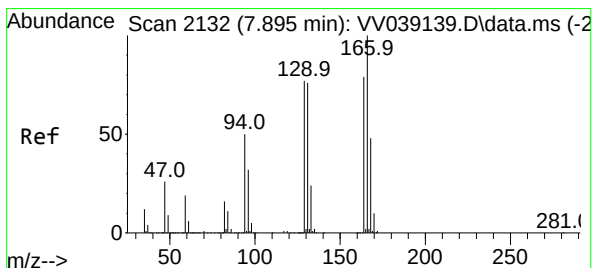
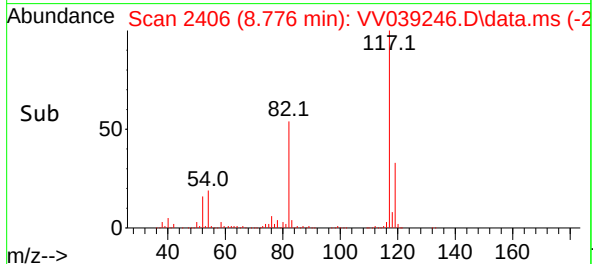
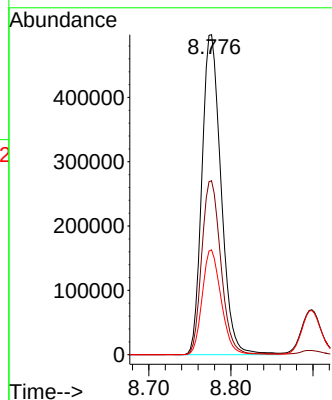
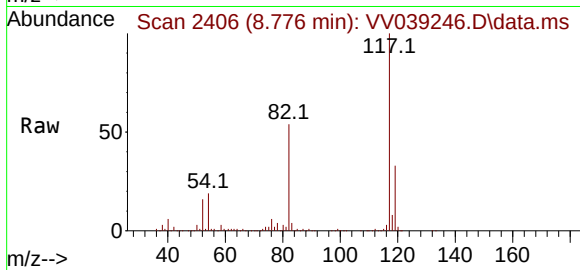
Tgt Ion:117 Resp: 807929

Ion Ratio Lower Upper

117 100

82 54.4 45.4 68.2

119 32.7 25.6 38.4



#64

Tetrachloroethene

Concen: 20.420 ug/l

RT: 7.899 min Scan# 2133

Delta R.T. 0.003 min

Lab File: VV039246.D

Acq: 03 Oct 2025 13:29

Tgt Ion:164 Resp: 138188

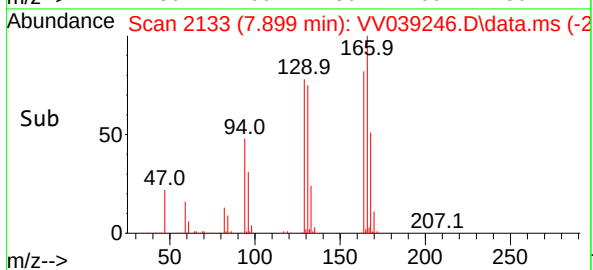
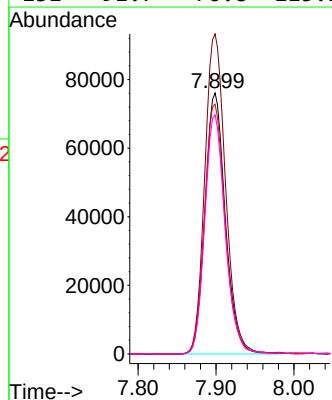
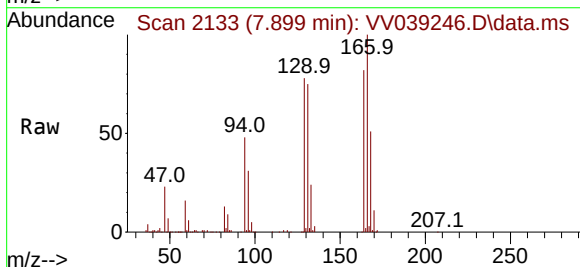
Ion Ratio Lower Upper

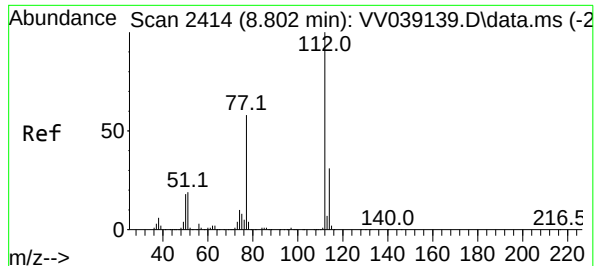
164 100

166 122.6 101.6 152.4

129 95.7 78.5 117.7

131 91.7 76.8 115.2





#65

Chlorobenzene

Concen: 20.212 ug/l

RT: 8.805 min Scan# 2414

Delta R.T. 0.003 min

Lab File: VV039246.D

Acq: 03 Oct 2025 13:29

Instrument :

MSVOA_V

ClientSampleId :

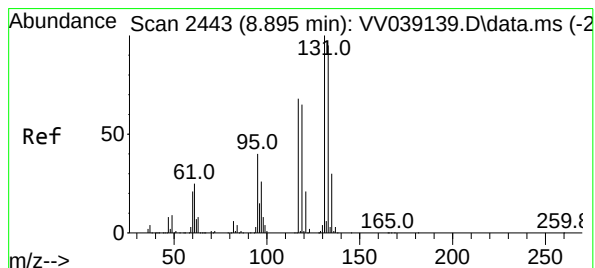
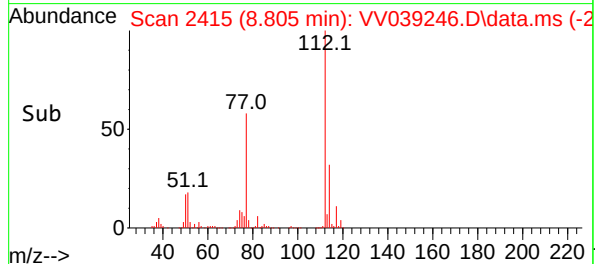
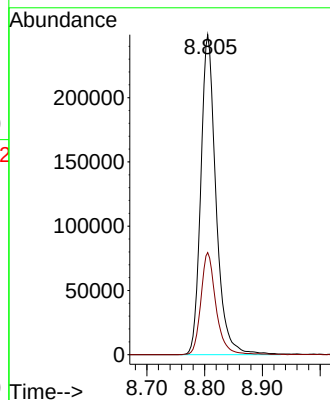
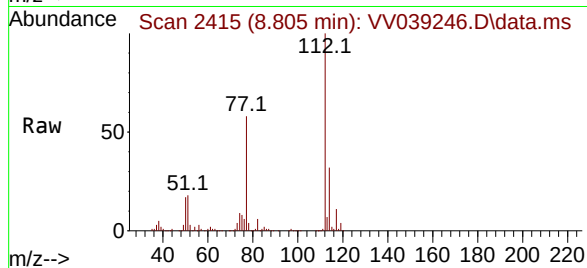
VV1003WBSD01

Tgt Ion:112 Resp: 454849

Ion Ratio Lower Upper

112 100

114 31.9 24.6 37.0



#66

1,1,1,2-Tetrachloroethane

Concen: 20.697 ug/l

RT: 8.899 min Scan# 2444

Delta R.T. 0.003 min

Lab File: VV039246.D

Acq: 03 Oct 2025 13:29

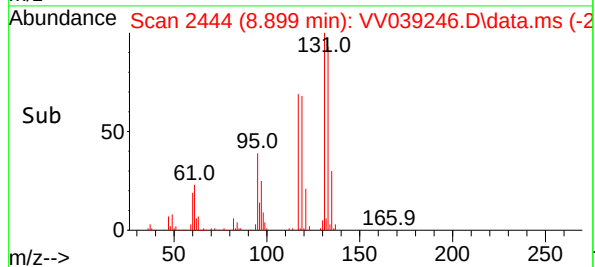
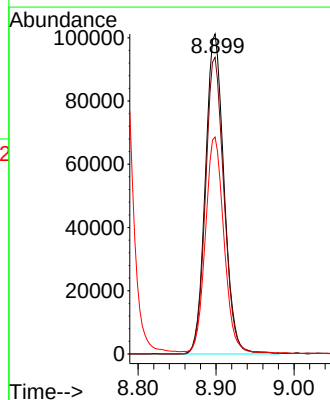
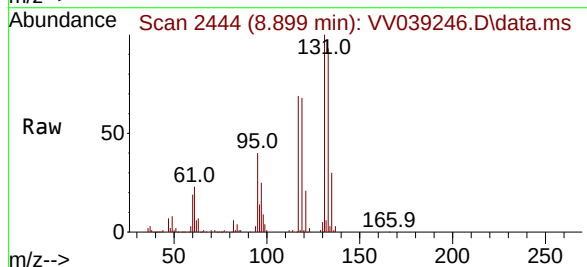
Tgt Ion:131 Resp: 168298

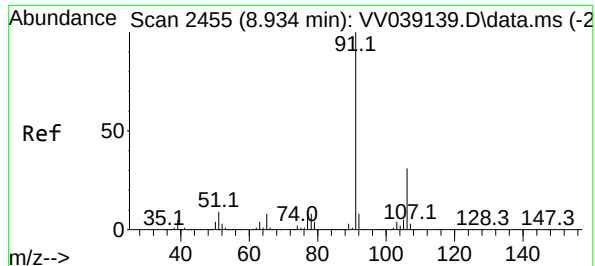
Ion Ratio Lower Upper

131 100

133 92.0 47.3 141.8

119 66.8 33.3 99.8





#67

Ethyl Benzene

Concen: 20.232 ug/l

RT: 8.937 min Scan# 2455

Delta R.T. 0.003 min

Lab File: VV039246.D

Acq: 03 Oct 2025 13:29

Instrument :

MSVOA_V

ClientSampleId :

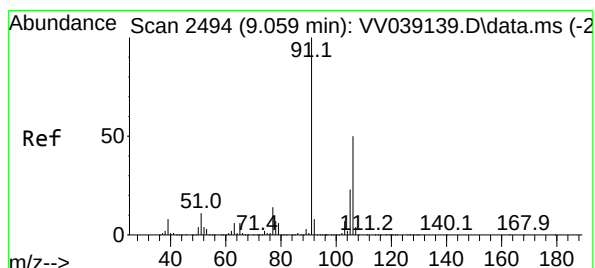
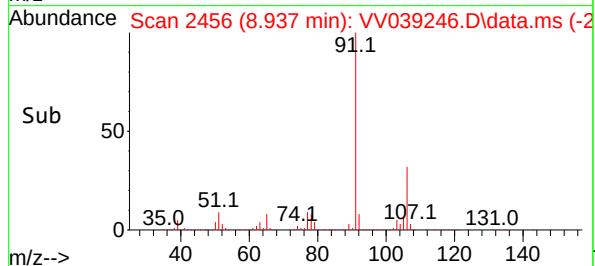
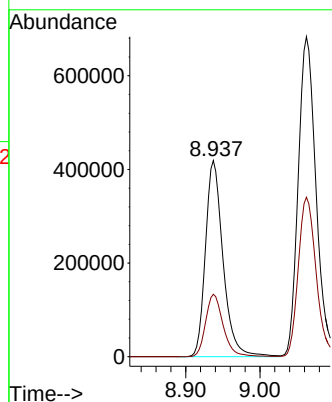
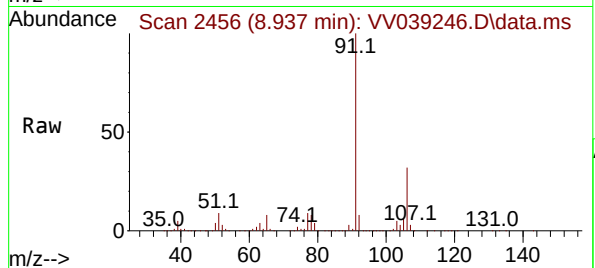
VV1003WBSD01

Tgt Ion: 91 Resp: 689222

Ion Ratio Lower Upper

91 100

106 31.8 24.6 37.0



#68

m/p-Xylenes

Concen: 43.267 ug/l

RT: 9.063 min Scan# 2495

Delta R.T. 0.004 min

Lab File: VV039246.D

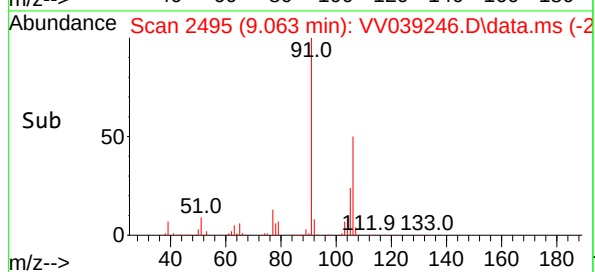
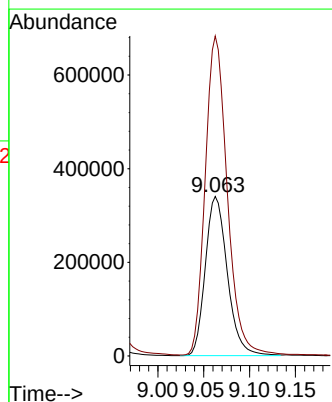
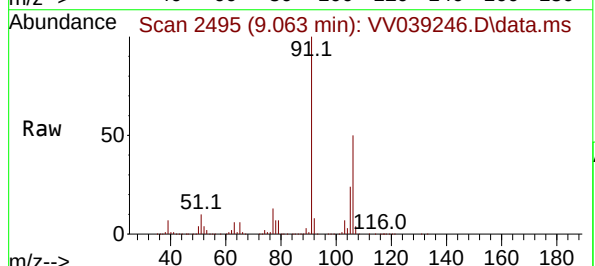
Acq: 03 Oct 2025 13:29

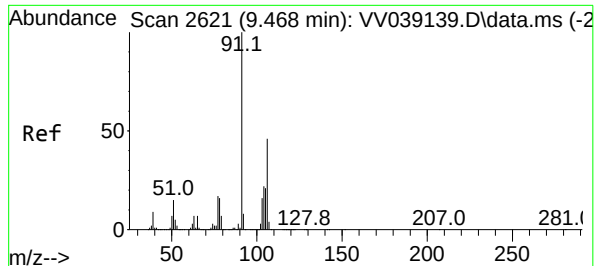
Tgt Ion: 106 Resp: 568873

Ion Ratio Lower Upper

106 100

91 202.2 162.5 243.7





#69

o-Xylene

Concen: 21.827 ug/l

RT: 9.468 min Scan# 2621

Delta R.T. -0.000 min

Lab File: VV039246.D

Acq: 03 Oct 2025 13:29

Instrument :

MSVOA_V

ClientSampleId :

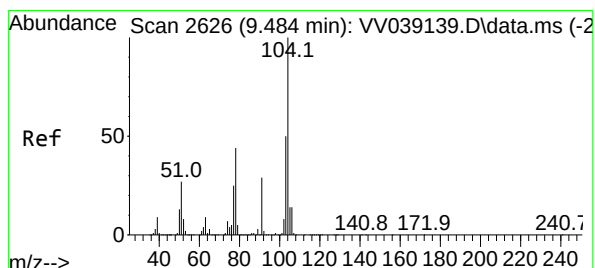
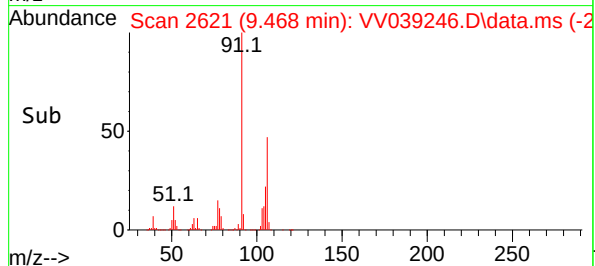
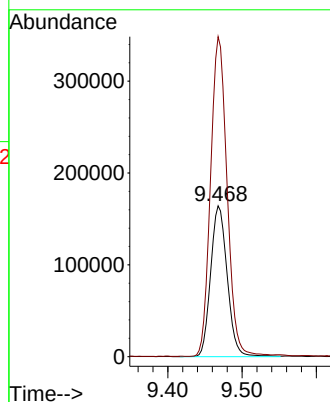
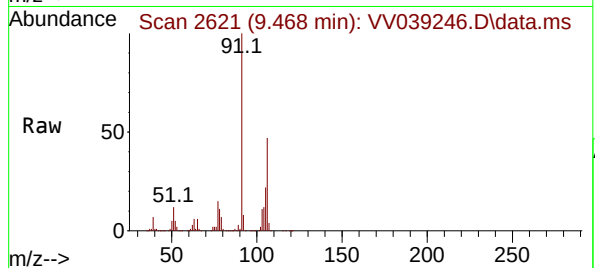
VV1003WBSD01

Tgt Ion:106 Resp: 254107

Ion Ratio Lower Upper

106 100

91 211.4 109.1 327.3



#70

Styrene

Concen: 19.600 ug/l

RT: 9.487 min Scan# 2627

Delta R.T. 0.003 min

Lab File: VV039246.D

Acq: 03 Oct 2025 13:29

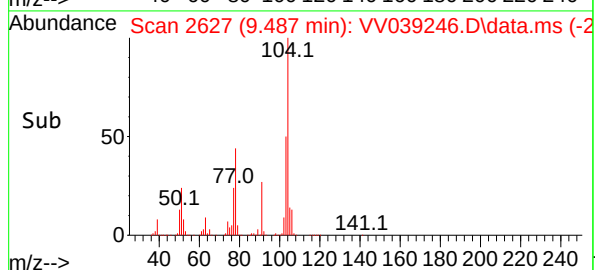
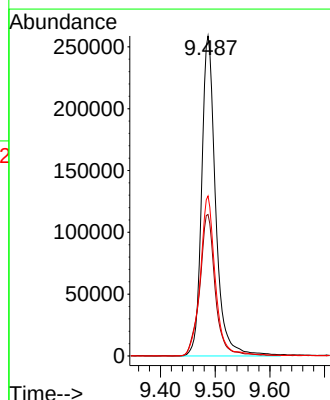
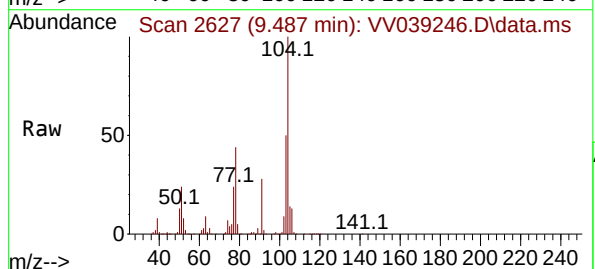
Tgt Ion:104 Resp: 461186

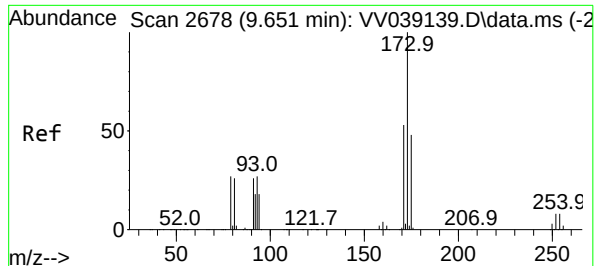
Ion Ratio Lower Upper

104 100

78 49.0 39.8 59.6

103 54.1 43.4 65.2

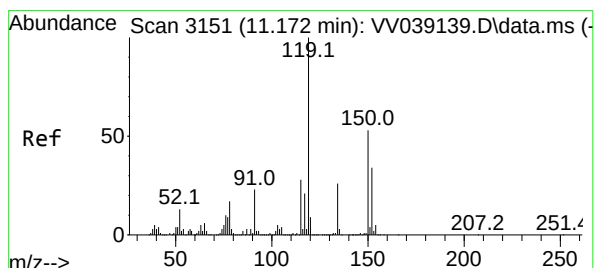
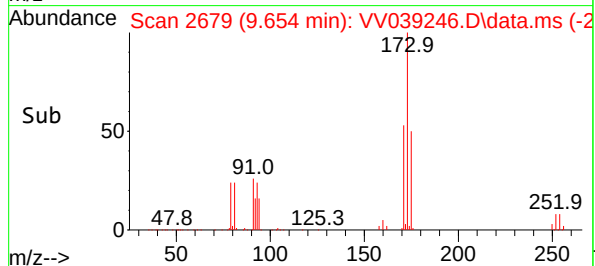
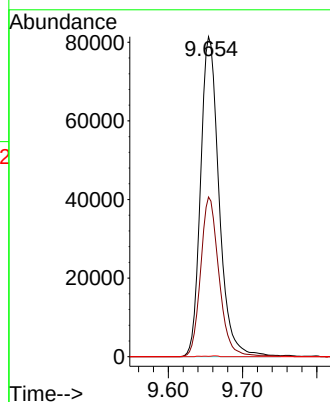
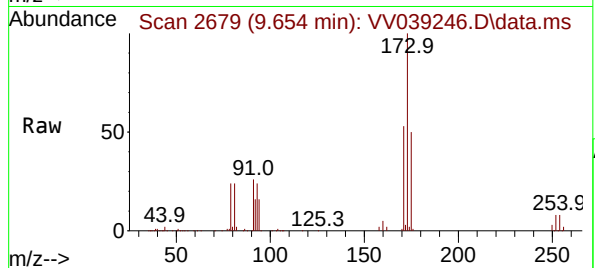




#71
Bromoform
Concen: 22.191 ug/l
RT: 9.654 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

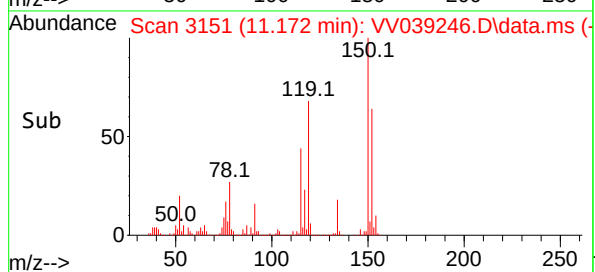
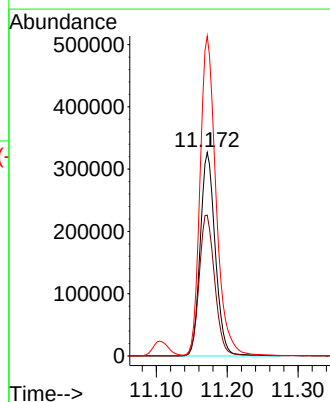
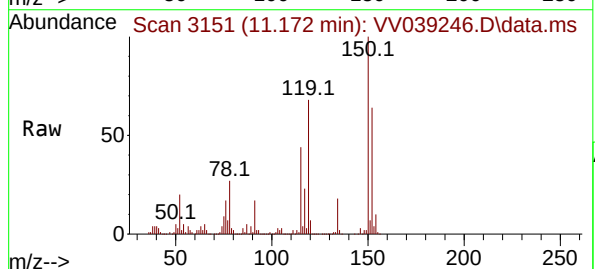
Instrument :
MSVOA_V
ClientSampleId :
VV1003WBSD01

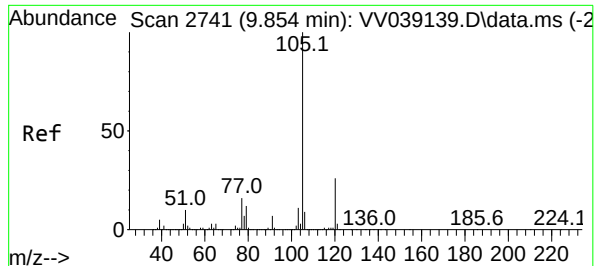
Tgt Ion:173 Resp: 140950
Ion Ratio Lower Upper
173 100
175 49.3 23.9 71.7
254 0.1 0.1 0.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3151
Delta R.T. -0.000 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Tgt Ion:152 Resp: 481201
Ion Ratio Lower Upper
152 100
115 71.4 44.8 134.4
150 166.7 0.0 353.8





#73

Isopropylbenzene

Concen: 20.047 ug/l

RT: 9.857 min Scan# 21

Delta R.T. 0.003 min

Lab File: VV039246.D

Acq: 03 Oct 2025 13:29

Instrument :

MSVOA_V

ClientSampleId :

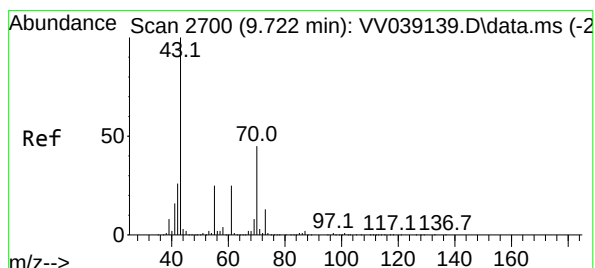
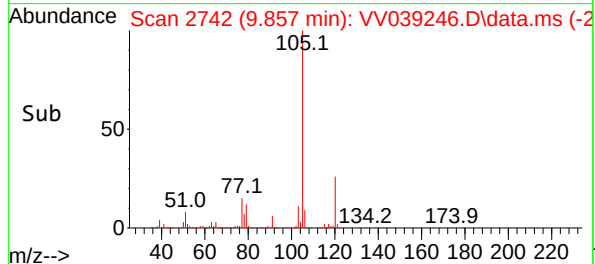
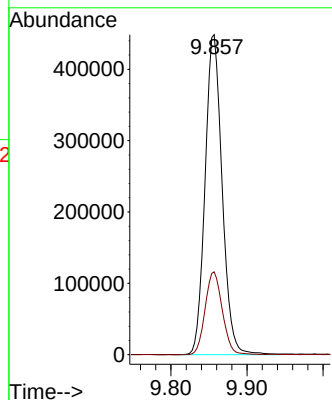
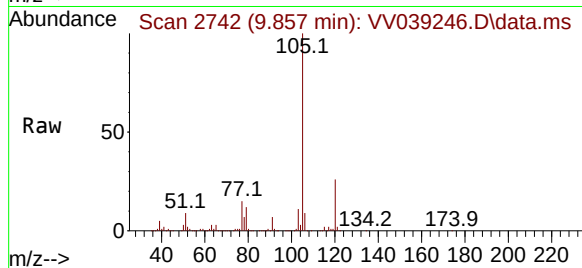
VV1003WBSD01

Tgt Ion:105 Resp: 699688

Ion Ratio Lower Upper

105 100

120 26.0 13.1 39.1



#74

N-ethyl acetate

Concen: 19.756 ug/l

RT: 9.725 min Scan# 2701

Delta R.T. 0.003 min

Lab File: VV039246.D

Acq: 03 Oct 2025 13:29

Tgt Ion: 43 Resp: 275038

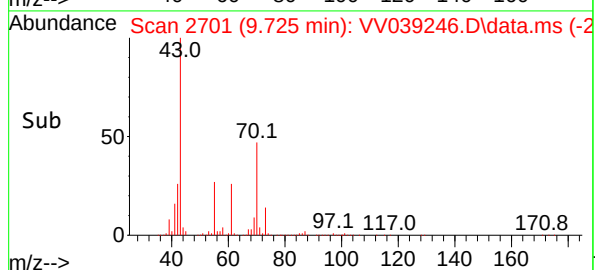
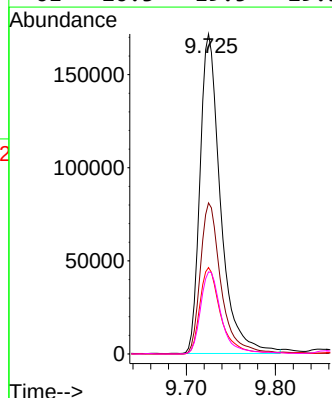
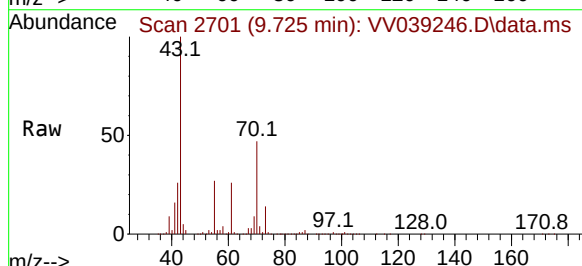
Ion Ratio Lower Upper

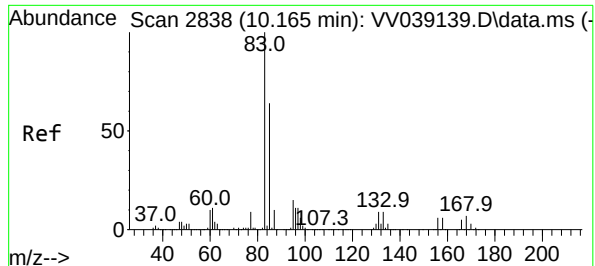
43 100

70 47.7 35.4 53.0

55 27.7 20.6 30.8

61 26.3 19.5 29.3





#75

1,1,2,2-Tetrachloroethane

Concen: 18.809 ug/l

RT: 10.165 min Scan# 2838

Delta R.T. -0.000 min

Lab File: VV039246.D

Acq: 03 Oct 2025 13:29

Instrument :

MSVOA_V

ClientSampleId :

VV1003WBSD01

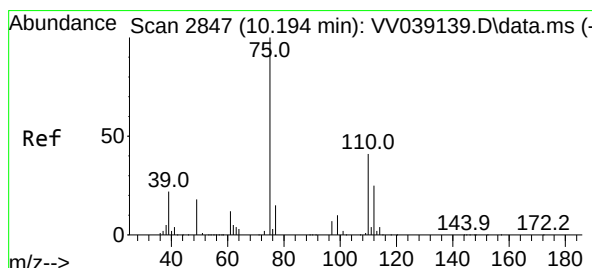
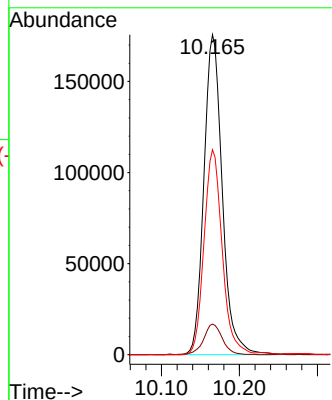
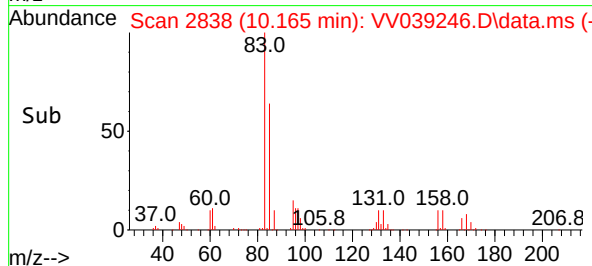
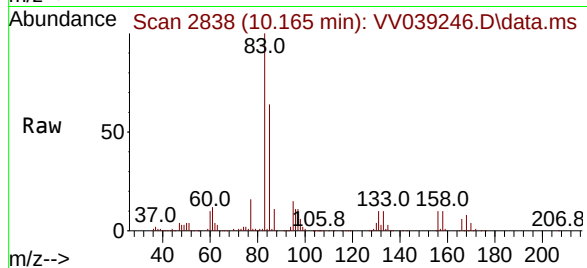
Tgt Ion: 83 Resp: 287626

Ion Ratio Lower Upper

83 100

131 9.8 4.5 13.7

85 63.2 31.9 95.9



#76

1,2,3-Trichloropropane

Concen: 18.755 ug/l

RT: 10.198 min Scan# 2848

Delta R.T. 0.003 min

Lab File: VV039246.D

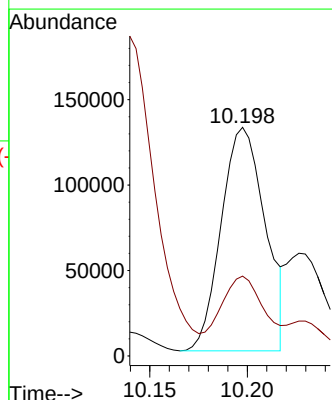
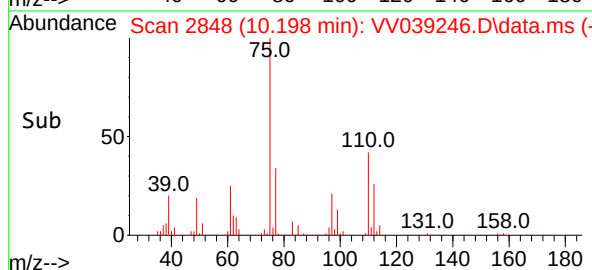
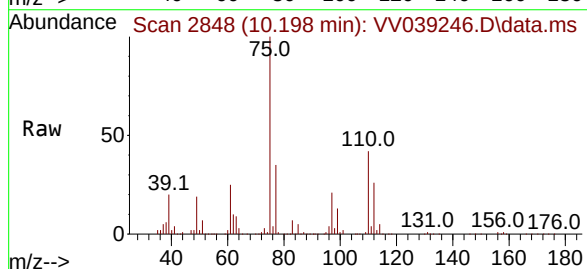
Acq: 03 Oct 2025 13:29

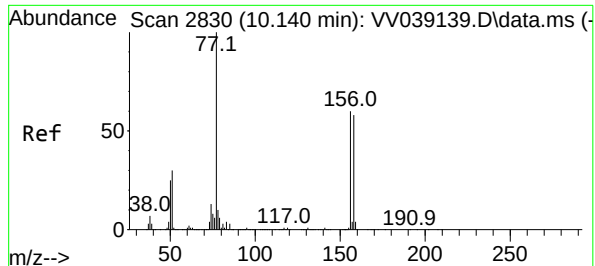
Tgt Ion: 75 Resp: 205482

Ion Ratio Lower Upper

75 100

77 21.6 11.3 33.8





#77

Bromobenzene

Concen: 20.739 ug/l

RT: 10.140 min Scan# 2830

Delta R.T. -0.000 min

Lab File: VV039246.D

Acq: 03 Oct 2025 13:29

Instrument :

MSVOA_V

ClientSampleId :

VV1003WBSD01

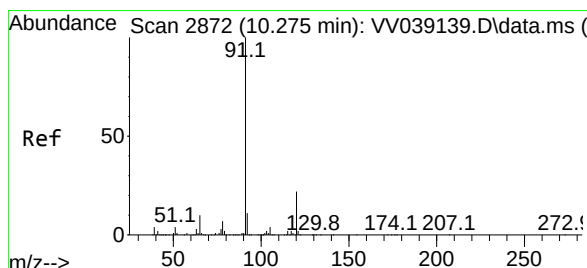
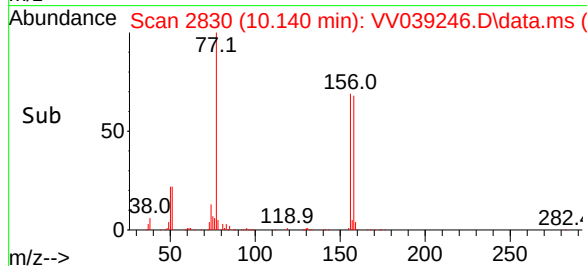
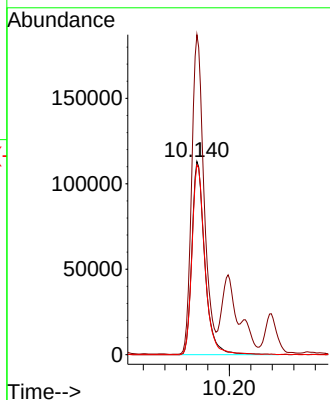
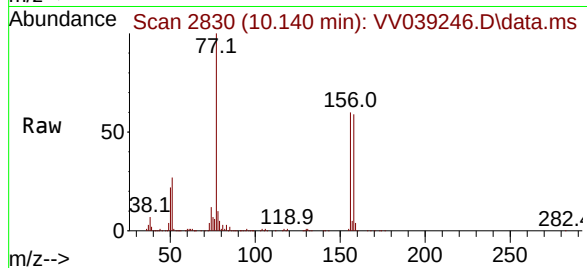
Tgt Ion:156 Resp: 187797

Ion Ratio Lower Upper

156 100

77 158.0 83.4 250.1

158 98.7 48.8 146.4



#78

n-propylbenzene

Concen: 19.554 ug/l

RT: 10.278 min Scan# 2873

Delta R.T. 0.003 min

Lab File: VV039246.D

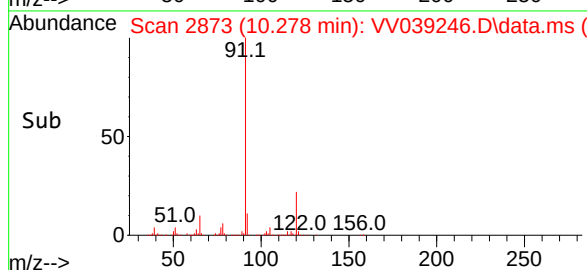
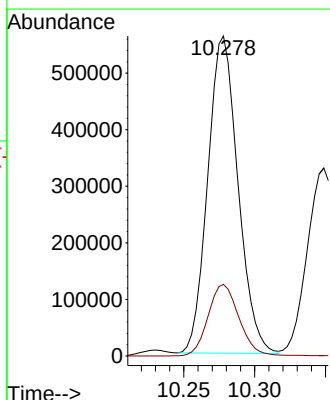
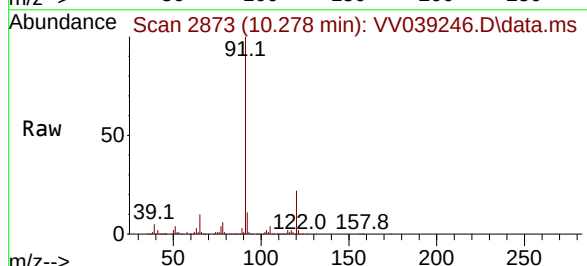
Acq: 03 Oct 2025 13:29

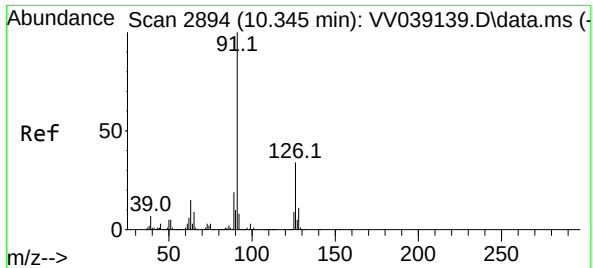
Tgt Ion: 91 Resp: 831093

Ion Ratio Lower Upper

91 100

120 23.3 11.1 33.3





#79

2-Chlorotoluene

Concen: 20.594 ug/l

RT: 10.349 min Scan# 2895

Delta R.T. 0.003 min

Lab File: VV039246.D

Acq: 03 Oct 2025 13:29

Instrument :

MSVOA_V

ClientSampleId :

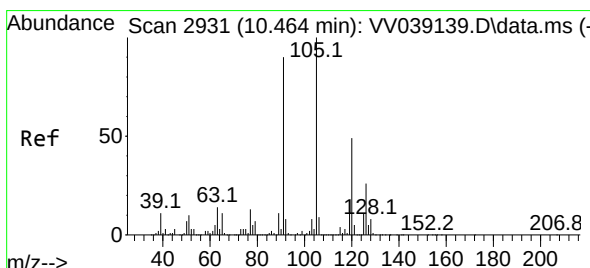
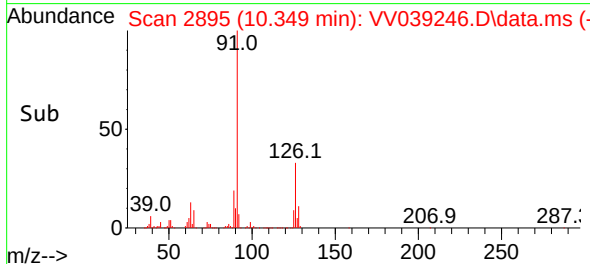
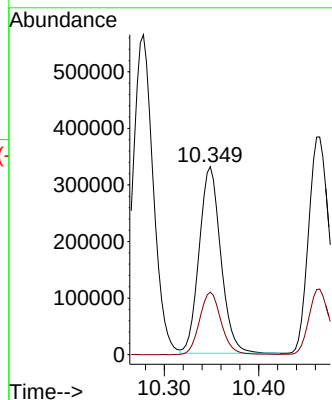
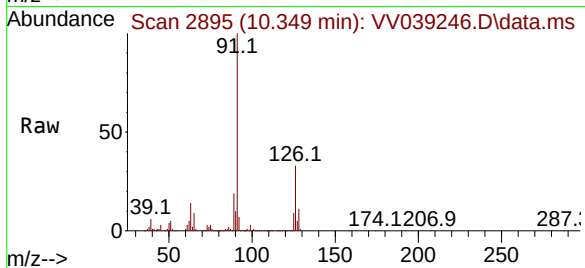
VV1003WBSD01

Tgt Ion: 91 Resp: 523752

Ion Ratio Lower Upper

91 100

126 33.5 16.7 50.0



#80

1,3,5-Trimethylbenzene

Concen: 20.380 ug/l

RT: 10.464 min Scan# 2931

Delta R.T. -0.000 min

Lab File: VV039246.D

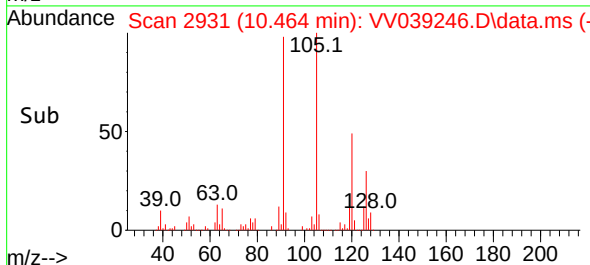
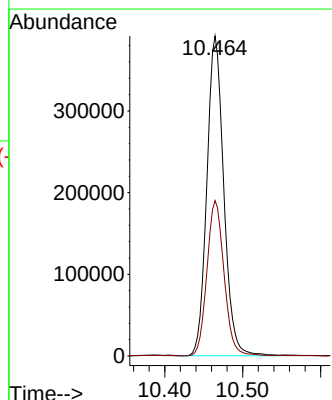
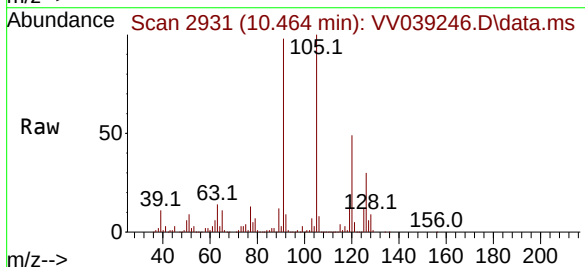
Acq: 03 Oct 2025 13:29

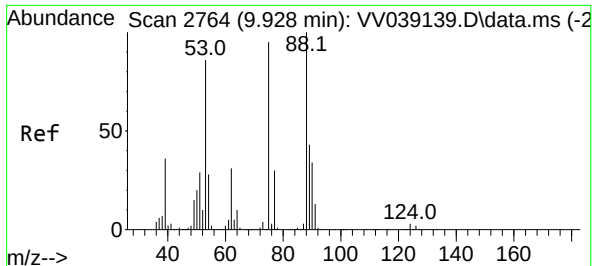
Tgt Ion: 105 Resp: 591210

Ion Ratio Lower Upper

105 100

120 49.0 24.3 72.8

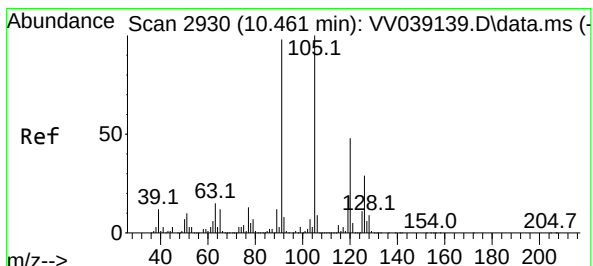
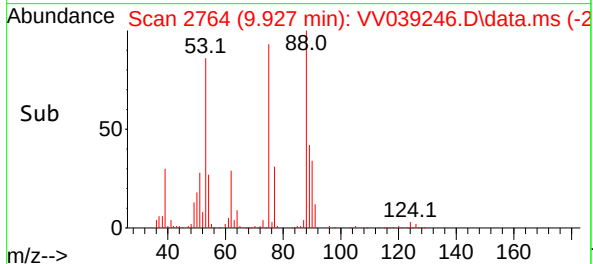
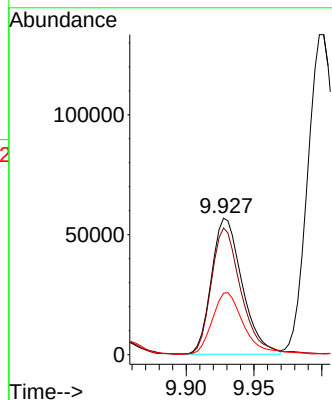
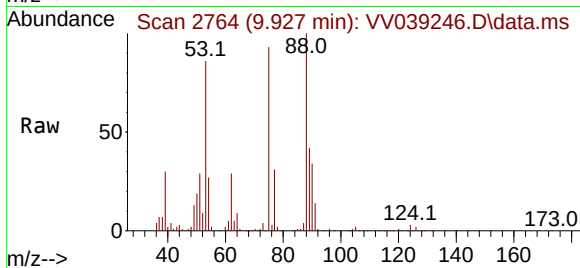




#81
trans-1,4-Dichloro-2-butene
Concen: 19.521 ug/l
RT: 9.927 min Scan# 21
Delta R.T. -0.000 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

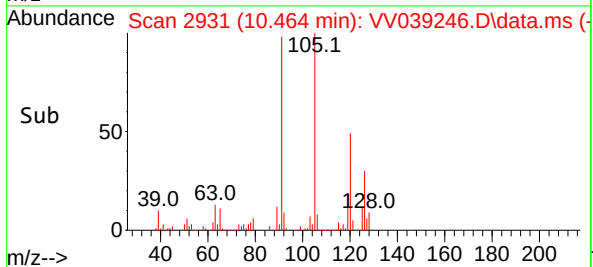
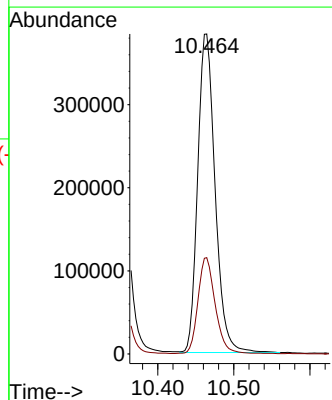
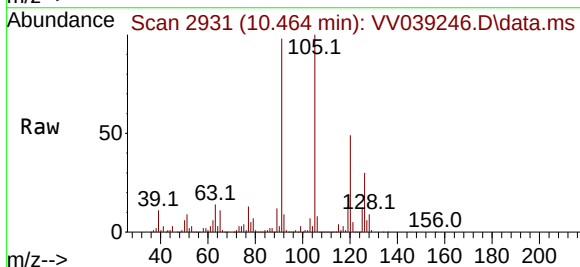
Instrument :
MSVOA_V
ClientSampleId :
VV1003WBSD01

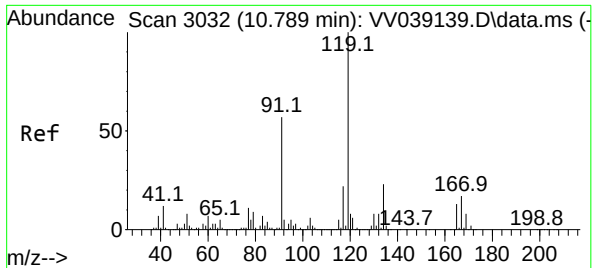
Tgt Ion: 75 Resp: 89087
Ion Ratio Lower Upper
75 100
53 88.9 72.5 108.7
89 46.4 37.2 55.8



#82
4-Chlorotoluene
Concen: 20.650 ug/l
RT: 10.464 min Scan# 2931
Delta R.T. 0.003 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Tgt Ion: 91 Resp: 608970
Ion Ratio Lower Upper
91 100
126 29.6 14.5 43.6

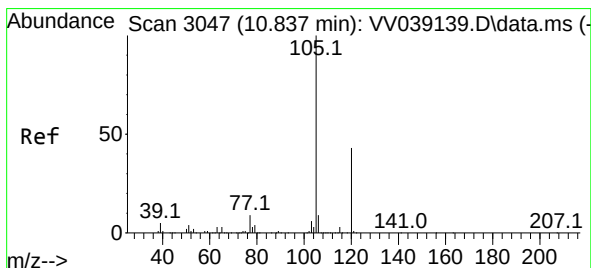
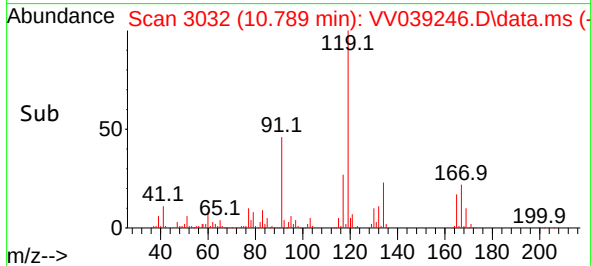
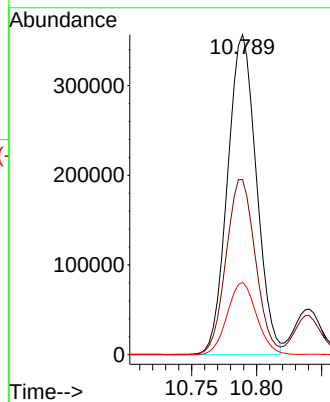
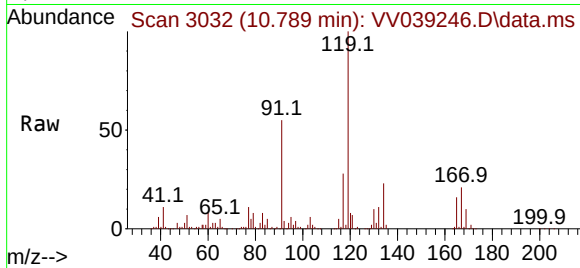




#83
tert-Butylbenzene
Concen: 19.043 ug/l
RT: 10.789 min Scan# 3032
Delta R.T. -0.000 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

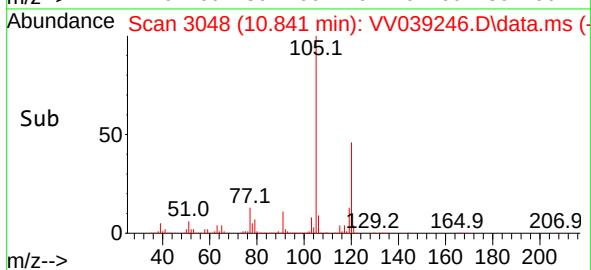
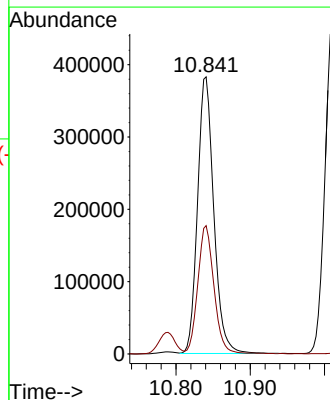
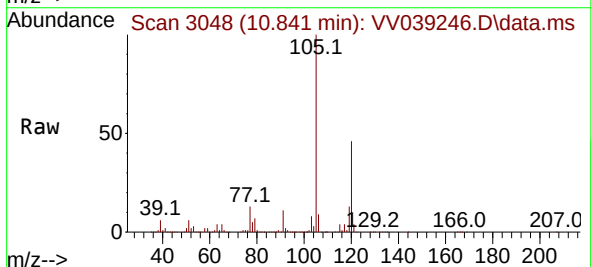
Instrument :
MSVOA_V
ClientSampleId :
VV1003WBSD01

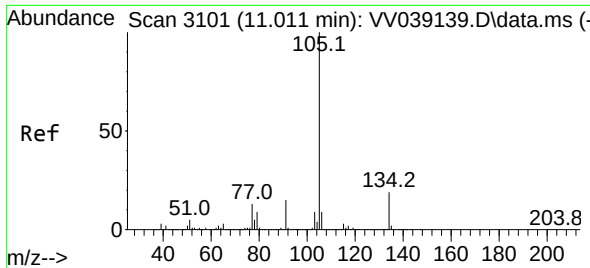
Tgt Ion:119 Resp: 550870
Ion Ratio Lower Upper
119 100
91 55.6 28.5 85.6
134 23.0 11.5 34.4



#84
1,2,4-Trimethylbenzene
Concen: 20.660 ug/l
RT: 10.841 min Scan# 3048
Delta R.T. 0.003 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Tgt Ion:105 Resp: 581871
Ion Ratio Lower Upper
105 100
120 46.1 22.4 67.2

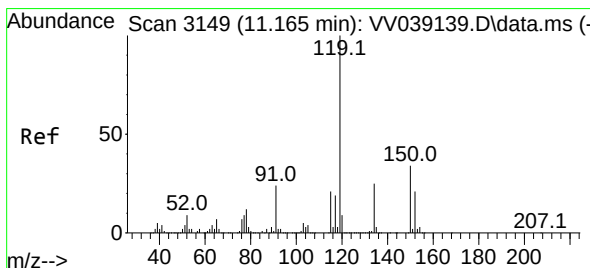
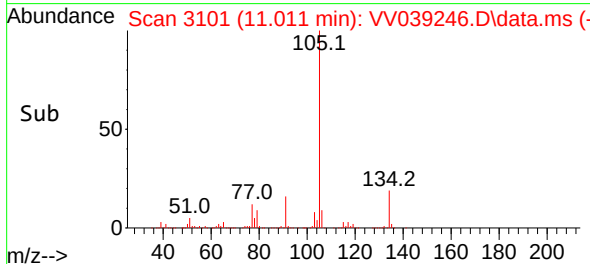
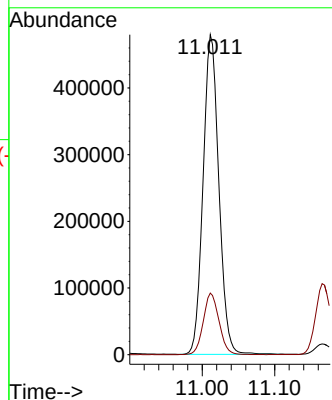
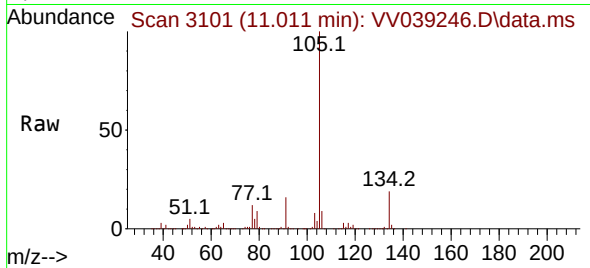




#85
sec-Butylbenzene
Concen: 18.837 ug/l
RT: 11.011 min Scan# 3101
Delta R.T. -0.000 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

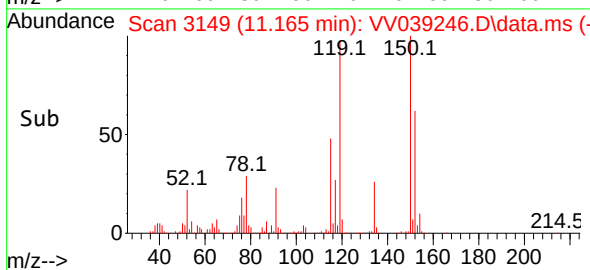
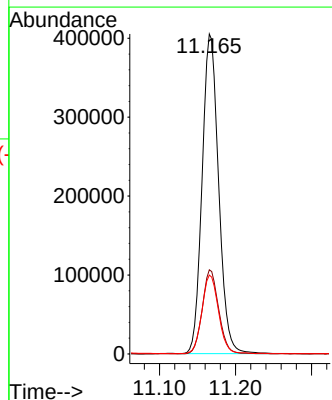
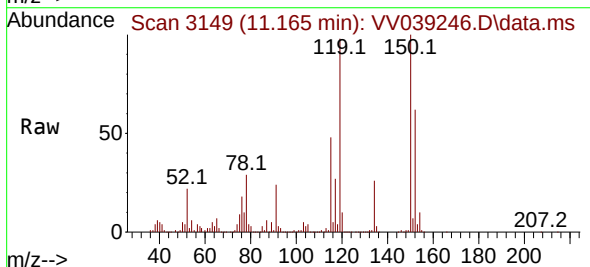
Instrument :
MSVOA_V
ClientSampleId :
VV1003WBSD01

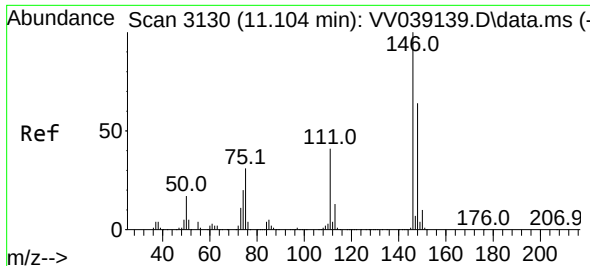
Tgt Ion:105 Resp: 722734
Ion Ratio Lower Upper
105 100
134 19.4 9.6 28.8



#86
p-Isopropyltoluene
Concen: 19.107 ug/l
RT: 11.165 min Scan# 3149
Delta R.T. -0.000 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Tgt Ion:119 Resp: 610180
Ion Ratio Lower Upper
119 100
134 26.0 12.7 38.0
91 24.7 12.0 36.1





#87

1,3-Dichlorobenzene

Concen: 20.309 ug/l

RT: 11.104 min Scan# 3130

Delta R.T. -0.000 min

Lab File: VV039246.D

Acq: 03 Oct 2025 13:29

Instrument :

MSVOA_V

ClientSampleId :

VV1003WBSD01

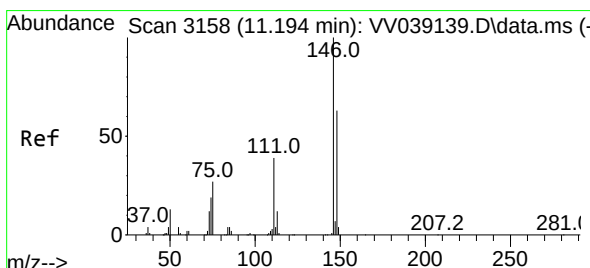
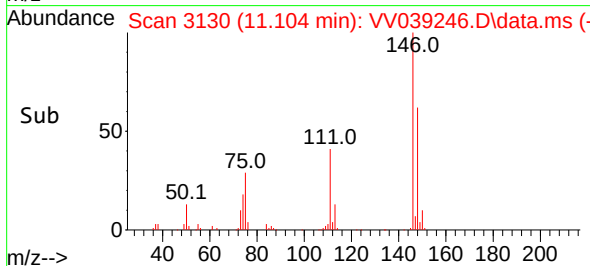
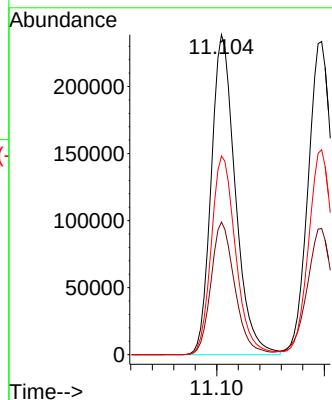
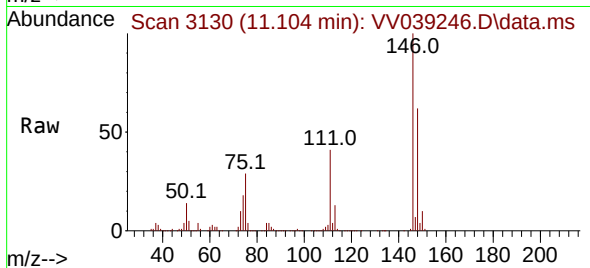
Tgt Ion:146 Resp: 372185

Ion Ratio Lower Upper

146 100

111 40.8 20.9 62.8

148 62.9 31.8 95.3



#88

1,4-Dichlorobenzene

Concen: 19.476 ug/l

RT: 11.198 min Scan# 3159

Delta R.T. 0.003 min

Lab File: VV039246.D

Acq: 03 Oct 2025 13:29

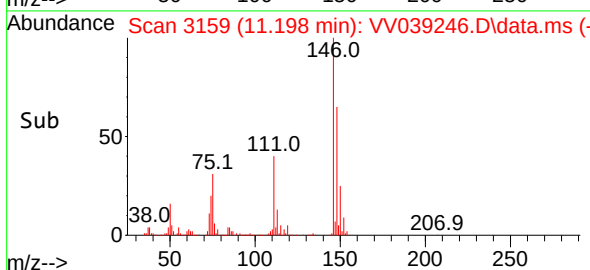
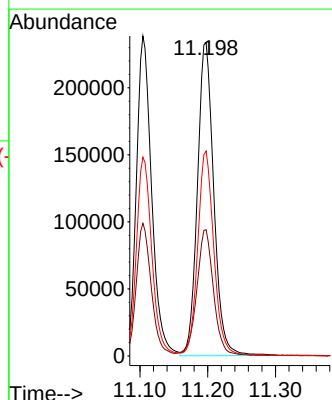
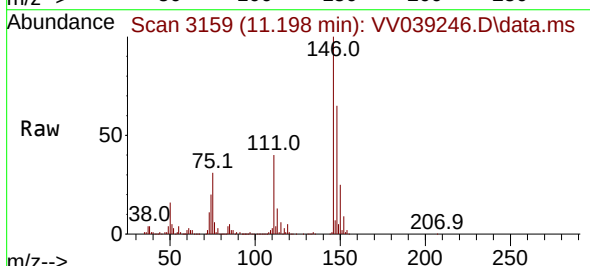
Tgt Ion:146 Resp: 391588

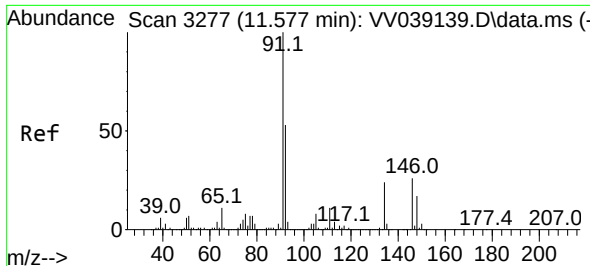
Ion Ratio Lower Upper

146 100

111 41.0 20.3 60.8

148 64.3 31.4 94.2





#89

n-Butylbenzene

Concen: 18.344 ug/l

RT: 11.580 min Scan# 31

Delta R.T. 0.003 min

Lab File: VV039246.D

Acq: 03 Oct 2025 13:29

Instrument :

MSVOA_V

ClientSampleId :

VV1003WBSD01

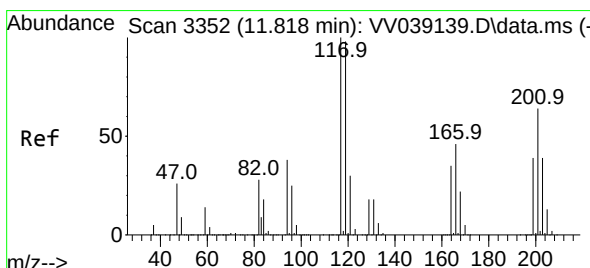
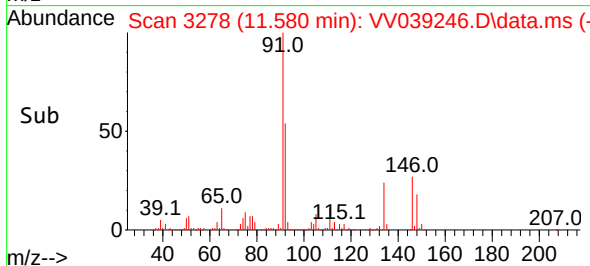
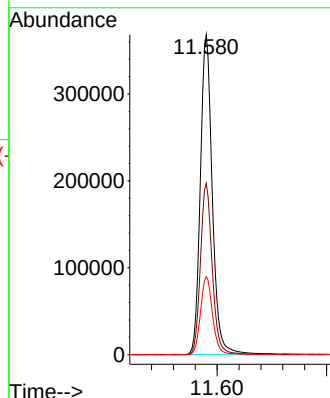
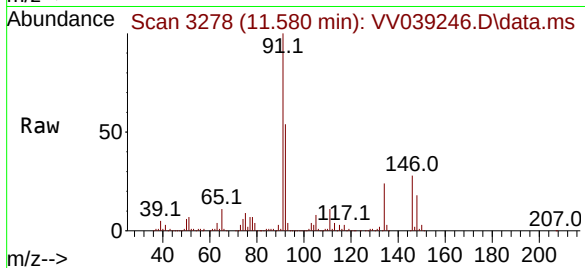
Tgt Ion: 91 Resp: 559457

Ion Ratio Lower Upper

91 100

92 52.7 26.6 79.8

134 24.4 12.1 36.3



#90

Hexachloroethane

Concen: 16.851 ug/l

RT: 11.818 min Scan# 3352

Delta R.T. 0.000 min

Lab File: VV039246.D

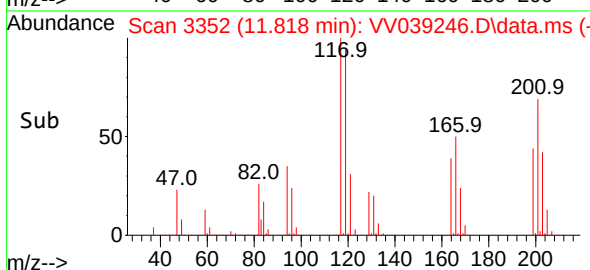
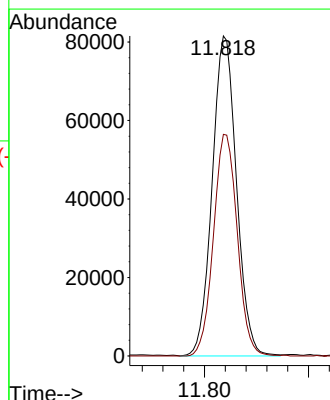
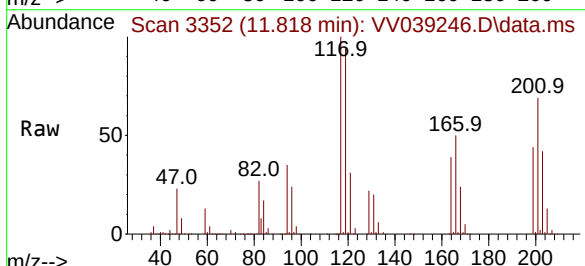
Acq: 03 Oct 2025 13:29

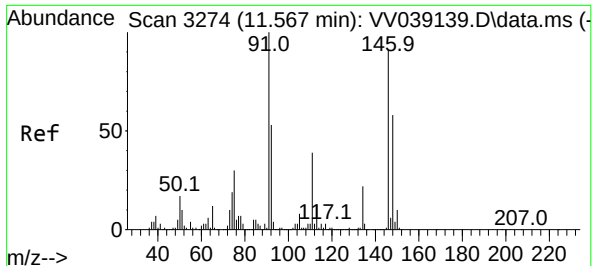
Tgt Ion: 117 Resp: 132512

Ion Ratio Lower Upper

117 100

201 67.7 32.3 96.8





#91

1,2-Dichlorobenzene

Concen: 20.161 ug/l

RT: 11.567 min Scan# 31

Delta R.T. 0.000 min

Lab File: VV039246.D

Acq: 03 Oct 2025 13:29

Instrument :

MSVOA_V

ClientSampleId :

VV1003WBSD01

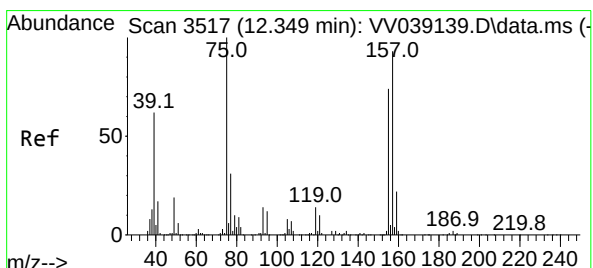
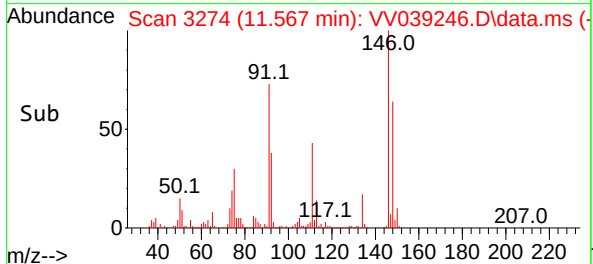
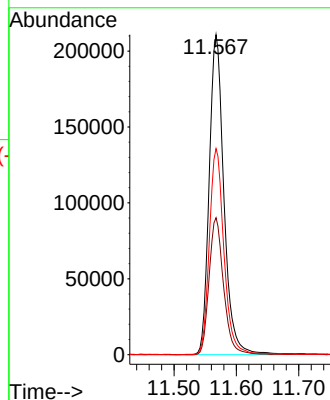
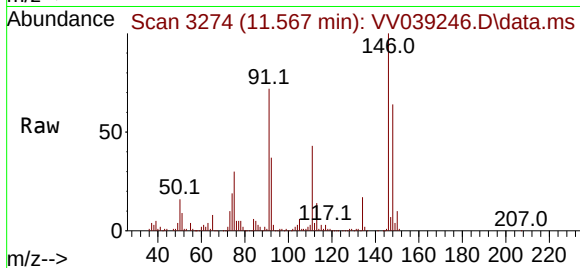
Tgt Ion:146 Resp: 345188

Ion Ratio Lower Upper

146 100

111 42.2 21.5 64.5

148 63.9 31.9 95.7



#92

1,2-Dibromo-3-Chloropropane

Concen: 20.636 ug/l

RT: 12.352 min Scan# 3518

Delta R.T. 0.003 min

Lab File: VV039246.D

Acq: 03 Oct 2025 13:29

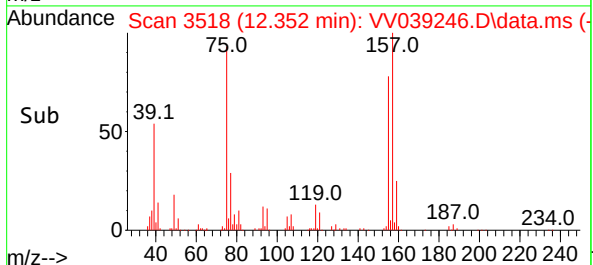
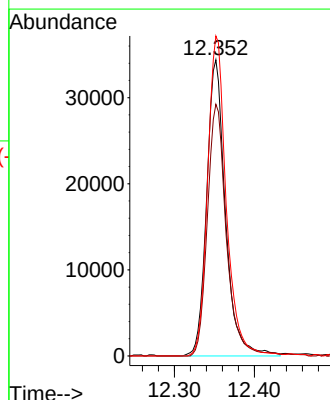
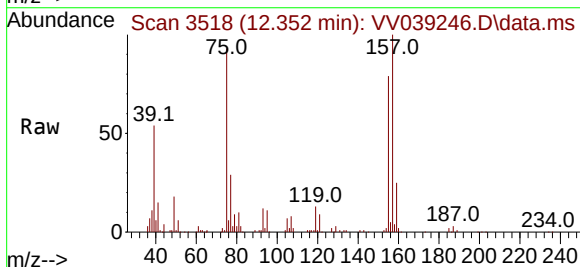
Tgt Ion: 75 Resp: 56191

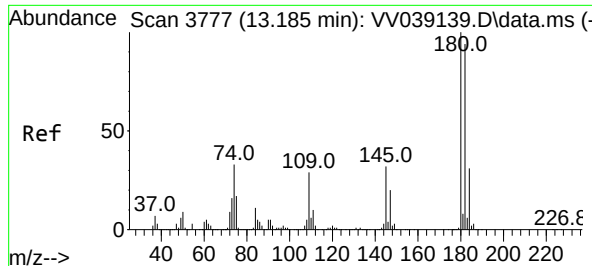
Ion Ratio Lower Upper

75 100

155 85.0 38.6 115.8

157 107.6 49.5 148.3





#93

1,2,4-Trichlorobenzene

Concen: 20.248 ug/l

RT: 13.185 min Scan# 3777

Delta R.T. -0.000 min

Lab File: VV039246.D

Acq: 03 Oct 2025 13:29

Instrument :

MSVOA_V

ClientSampleId :

VV1003WBSD01

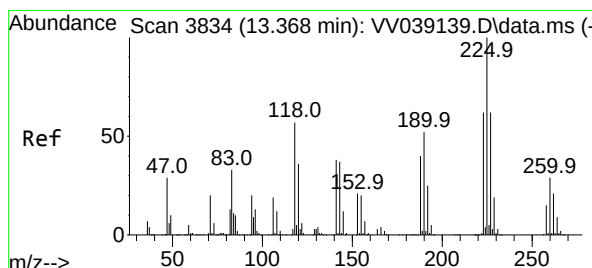
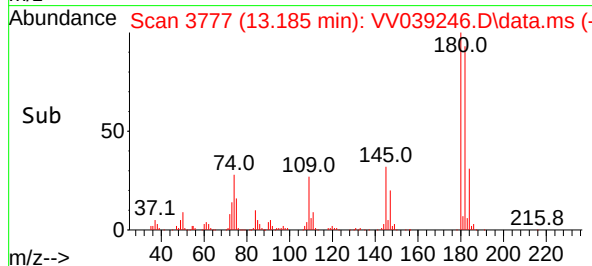
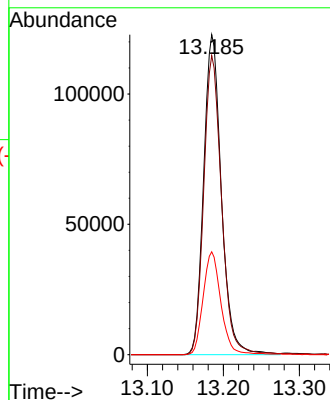
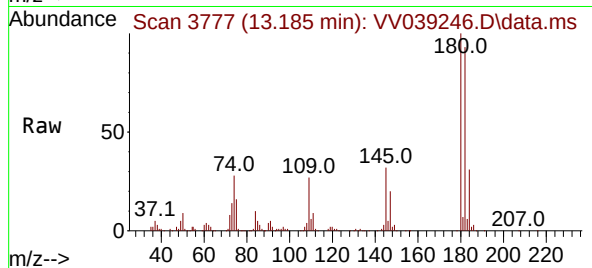
Tgt Ion:180 Resp: 198726

Ion Ratio Lower Upper

180 100

182 93.8 47.1 141.4

145 32.3 16.3 48.8



#94

Hexachlorobutadiene

Concen: 16.557 ug/l

RT: 13.368 min Scan# 3834

Delta R.T. -0.000 min

Lab File: VV039246.D

Acq: 03 Oct 2025 13:29

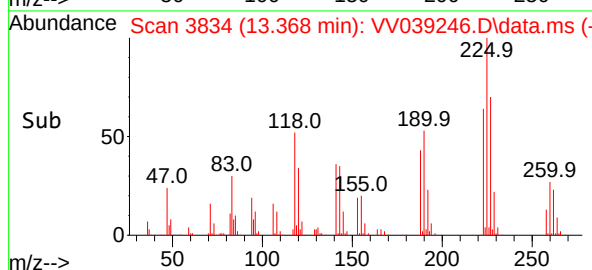
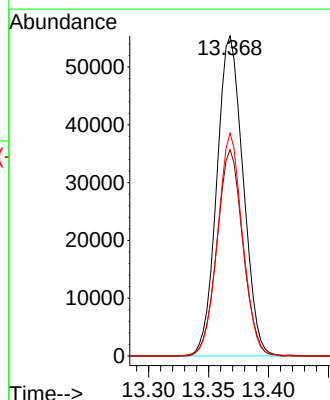
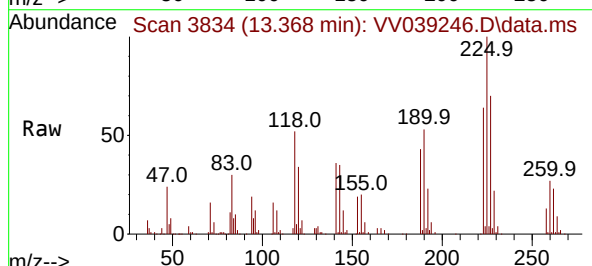
Tgt Ion:225 Resp: 84439

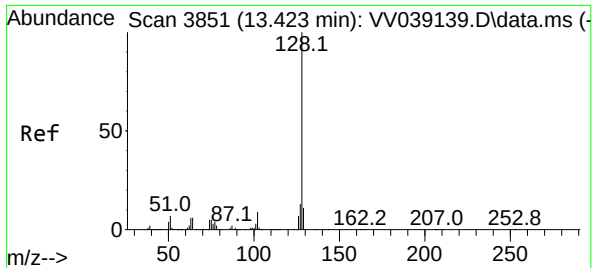
Ion Ratio Lower Upper

225 100

223 63.3 31.6 94.7

227 66.1 31.8 95.4





#95

Naphthalene

Concen: 19.941 ug/l

RT: 13.426 min Scan# 3851

Delta R.T. 0.003 min

Lab File: VV039246.D

Acq: 03 Oct 2025 13:29

Instrument :

MSVOA_V

ClientSampleId :

VV1003WBSD01

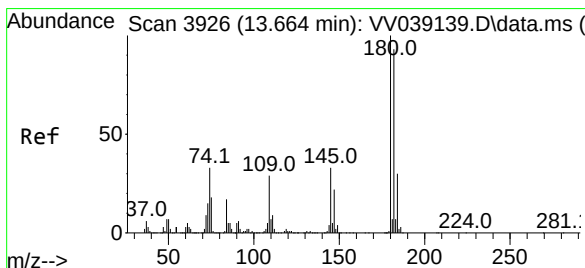
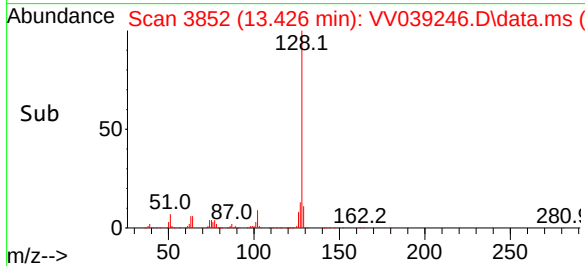
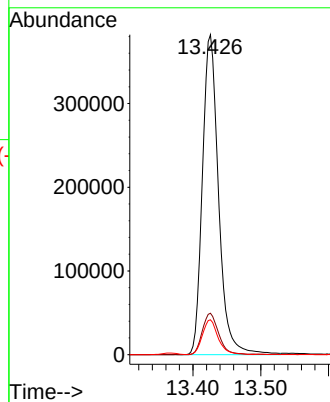
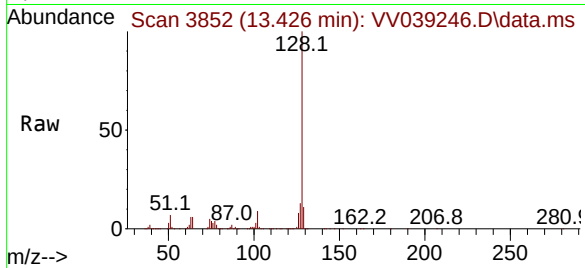
Tgt Ion:128 Resp: 632578

Ion Ratio Lower Upper

128 100

127 13.0 10.3 15.5

129 10.6 8.6 13.0



#96

1,2,3-Trichlorobenzene

Concen: 20.295 ug/l

RT: 13.664 min Scan# 3926

Delta R.T. -0.000 min

Lab File: VV039246.D

Acq: 03 Oct 2025 13:29

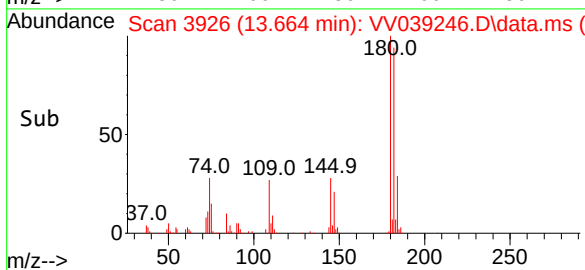
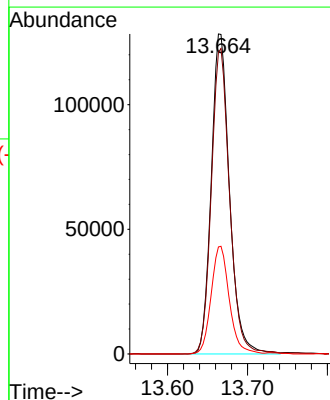
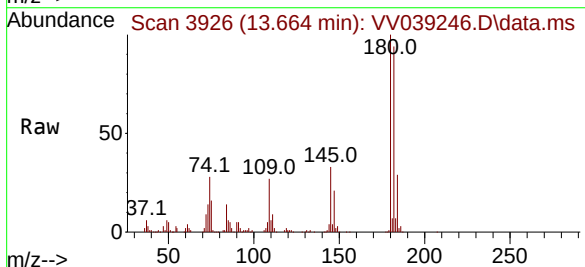
Tgt Ion:180 Resp: 203723

Ion Ratio Lower Upper

180 100

182 95.5 46.9 140.8

145 33.5 17.0 51.0



Manual Integration Report

Sequence:	VV092225	Instrument	MSVOA_v

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC005	VV039142.D	1,2,3-Trichloropropane	MMDadod a	9/26/2025 1:38:50 AM	SAM	9/26/2025 1:57:11 AM	Peak Integrated by Software
VSTDICC001	VV039143.D	1,1-Dichloropropene	MMDadod a	9/26/2025 1:38:52 AM	SAM	9/26/2025 1:57:13 AM	Peak Integrated by Software
VSTDICC001	VV039143.D	1,4-Dichlorobenzene	MMDadod a	9/26/2025 1:38:52 AM	SAM	9/26/2025 1:57:13 AM	Peak Integrated by Software
VSTDICC001	VV039143.D	1,4-Dioxane	MMDadod a	9/26/2025 1:38:52 AM	SAM	9/26/2025 1:57:13 AM	Peak Integrated by Software
VSTDICC001	VV039143.D	2,2-Dichloropropane	MMDadod a	9/26/2025 1:38:52 AM	SAM	9/26/2025 1:57:13 AM	Peak Integrated by Software
VSTDICC001	VV039143.D	2-Butanone	MMDadod a	9/26/2025 1:38:52 AM	SAM	9/26/2025 1:57:13 AM	Peak Integrated by Software
VSTDICC001	VV039143.D	Carbon Tetrachloride	MMDadod a	9/26/2025 1:38:52 AM	SAM	9/26/2025 1:57:13 AM	Peak Integrated by Software
VSTDICC001	VV039143.D	Ethyl Acetate	MMDadod a	9/26/2025 1:38:52 AM	SAM	9/26/2025 1:57:13 AM	Peak Integrated by Software
VSTDICC001	VV039143.D	Ethyl methacrylate	MMDadod a	9/26/2025 1:38:52 AM	SAM	9/26/2025 1:57:13 AM	Peak Integrated by Software
VSTDICC001	VV039143.D	Isopropyl Acetate	MMDadod a	9/26/2025 1:38:52 AM	SAM	9/26/2025 1:57:13 AM	Peak Integrated by Software
VSTDICC001	VV039143.D	Methacrylonitrile	MMDadod a	9/26/2025 1:38:52 AM	SAM	9/26/2025 1:57:13 AM	Peak Integrated by Software
VSTDICC001	VV039143.D	Methyl methacrylate	MMDadod a	9/26/2025 1:38:52 AM	SAM	9/26/2025 1:57:13 AM	Peak Integrated by Software
VSTDICC001	VV039143.D	Naphthalene	MMDadod a	9/26/2025 1:38:52 AM	SAM	9/26/2025 1:57:13 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	VV092225	Instrument	MSVOA_v

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICV050	VV039144.D	1,2,3-Trichloropropane	MMDadoda	9/26/2025 1:38:55 AM	SAM	9/26/2025 1:57:15 AM	Peak Integrated by Software



Manual Integration Report

Sequence:	VV100325	Instrument	MSVOA_v

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

Instrument ID: **MSVOA_V**

Daily Analysis Runlog For Sequence/QCBatch ID # VV092225

Review By	Mahesh Dadoda	Review On	9/26/2025 1:39:32 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	9/26/2025 1:56:56 AM		
SubDirectory	VV092225	HP Acquire Method	MSVOA_V	HP Processing Method	82v092225w.m
STD. NAME	STD REF.#				
Tune/Reschk	VP135580				
Initial Calibration Stds	VP135581,VP135582,VP135583,VP135584,VP135585,VP135586				
CCC					
Internal Standard/PEM	VP133935				
ICV/I.BLK	VP135587				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VV039134.D	22 Sep 2025 10:15	SY/MD	Ok
2	VSTDICC001	VV039135.D	22 Sep 2025 10:59	SY/MD	Not Ok
3	VSTDICC005	VV039136.D	22 Sep 2025 11:30	SY/MD	Not Ok
4	VSTDICC010	VV039137.D	22 Sep 2025 12:26	SY/MD	Ok
5	VSTDICC020	VV039138.D	22 Sep 2025 12:48	SY/MD	Ok
6	VSTDICCC050	VV039139.D	22 Sep 2025 13:26	SY/MD	Ok
7	VSTDICC100	VV039140.D	22 Sep 2025 13:49	SY/MD	Ok
8	VIBLK	VV039141.D	22 Sep 2025 14:21	SY/MD	Ok
9	VSTDICC005	VV039142.D	22 Sep 2025 15:37	SY/MD	Ok,M
10	VSTDICC001	VV039143.D	22 Sep 2025 16:35	SY/MD	Ok,M
11	VSTDICV050	VV039144.D	22 Sep 2025 16:58	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_V**

Daily Analysis Runlog For Sequence/QCBatch ID # VV100325

Review By	Mahesh Dadoda	Review On	10/6/2025 4:25:08 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	10/6/2025 4:29:07 AM		
SubDirectory	VV100325	HP Acquire Method	MSVOA_V	HP Processing Method	82v092225w.m
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP135740			
CCC		VP135741,VP135742			
Internal Standard/PEM		VP133935			
ICV/I.BLK					
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VV039241.D	03 Oct 2025 08:26	SY/MD	Ok
2	VSTDCCC050	VV039242.D	03 Oct 2025 08:53	SY/MD	Ok
3	VV1003MBL01	VV039243.D	03 Oct 2025 11:04	SY/MD	Ok
4	VV1003WBL01	VV039244.D	03 Oct 2025 11:26	SY/MD	Ok
5	VV1003WBS01	VV039245.D	03 Oct 2025 13:07	SY/MD	Ok
6	VV1003WBSD01	VV039246.D	03 Oct 2025 13:29	SY/MD	Ok
7	Q3263-01	VV039247.D	03 Oct 2025 14:19	SY/MD	ReRun
8	Q3263-02	VV039248.D	03 Oct 2025 14:42	SY/MD	ReRun
9	Q3201-07	VV039249.D	03 Oct 2025 15:04	SY/MD	Ok
10	Q3201-08	VV039250.D	03 Oct 2025 15:27	SY/MD	Ok
11	Q3254-09	VV039251.D	03 Oct 2025 15:49	SY/MD	Ok
12	Q3254-01	VV039252.D	03 Oct 2025 16:11	SY/MD	Ok
13	Q3254-03	VV039253.D	03 Oct 2025 16:34	SY/MD	Ok
14	Q3254-05	VV039254.D	03 Oct 2025 16:56	SY/MD	Ok
15	Q3254-07	VV039255.D	03 Oct 2025 17:19	SY/MD	Ok
16	Q3201-01	VV039256.D	03 Oct 2025 17:41	SY/MD	Dilution
17	Q3201-02	VV039257.D	03 Oct 2025 18:04	SY/MD	Dilution
18	Q3201-03	VV039258.D	03 Oct 2025 18:26	SY/MD	ReRun
19	Q3201-04	VV039259.D	03 Oct 2025 18:49	SY/MD	Not Ok
20	Q3201-05	VV039260.D	03 Oct 2025 19:11	SY/MD	ReRun
21	Q3201-06	VV039261.D	03 Oct 2025 19:34	SY/MD	Not Ok

Instrument ID: **MSVOA_V**

Daily Analysis Runlog For Sequence/QCBatch ID # VV100325

Review By	Mahesh Dadoda	Review On	10/6/2025 4:25:08 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	10/6/2025 4:29:07 AM		
SubDirectory	VV100325	HP Acquire Method	MSVOA_V	HP Processing Method	82v092225w.m
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP135740			
CCC		VP135741,VP135742			
Internal Standard/PEM		VP133935			
ICV/I.BLK					
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	VIBLK	VV039262.D	03 Oct 2025 19:56	SY/MD	Ok
23	VSTDCCC050	VV039263.D	03 Oct 2025 20:19	SY/MD	Ok

M : Manual Integration

Instrument ID: MSVOA_V

Daily Analysis Runlog For Sequence/QC Batch ID # VV092225

Review By	Maresh Dadoda	Review On	9/26/2025 1:39:32 AM
Supervise By	Semsettin Yesilyurt	Supervise On	9/26/2025 1:56:56 AM
SubDirectory	VV092225	HP Acquire Method	MSVOA_V
		HP Processing Method	82v092225w.m

STD. NAME	STD REF.#
Tune/Reschk	VP135580
Initial Calibration Stds	VP135581,VP135582,VP135583,VP135584,VP135585,VP135586
CCC	
Internal Standard/PEM	VP133935
ICV/I.BLK	VP135587
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	Sampleld	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VV039134.D	22 Sep 2025 10:15		SY/MD	Ok
2	VSTDICC001	VSTDICC001	VV039135.D	22 Sep 2025 10:59	Not use	SY/MD	Not Ok
3	VSTDICC005	VSTDICC005	VV039136.D	22 Sep 2025 11:30	Not use	SY/MD	Not Ok
4	VSTDICC010	VSTDICC010	VV039137.D	22 Sep 2025 12:26		SY/MD	Ok
5	VSTDICC020	VSTDICC020	VV039138.D	22 Sep 2025 12:48	QR- 06,16,20,70,92	SY/MD	Ok
6	VSTDICCC050	VSTDICCC050	VV039139.D	22 Sep 2025 13:26	LR- 41,58,59	SY/MD	Ok
7	VSTDICC100	VSTDICC100	VV039140.D	22 Sep 2025 13:49		SY/MD	Ok
8	VIBLK	VIBLK	VV039141.D	22 Sep 2025 14:21		SY/MD	Ok
9	VSTDICC005	VSTDICC005	VV039142.D	22 Sep 2025 15:37		SY/MD	Ok,M
10	VSTDICC001	VSTDICC001	VV039143.D	22 Sep 2025 16:35		SY/MD	Ok,M
11	VSTDICV050	ICVVV092225	VV039144.D	22 Sep 2025 16:58	Goof for Non-DOD	SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_V

Daily Analysis Runlog For Sequence/QC Batch ID # VV100325

Review By	Maresh Dadoda	Review On	10/6/2025 4:25:08 AM
Supervise By	Semsettin Yesilyurt	Supervise On	10/6/2025 4:29:07 AM
SubDirectory	VV100325	HP Acquire Method	MSVOA_V
		HP Processing Method	82v092225w.m

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP135740
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP135741,VP135742 VP133935

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VV039241.D	03 Oct 2025 08:26		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VV039242.D	03 Oct 2025 08:53	CCC failed High For Com.#51,68,69	SY/MD	Ok
3	VV1003MBL01	VV1003MBL01	VV039243.D	03 Oct 2025 11:04		SY/MD	Ok
4	VV1003WBL01	VV1003WBL01	VV039244.D	03 Oct 2025 11:26		SY/MD	Ok
5	VV1003WBS01	VV1003WBS01	VV039245.D	03 Oct 2025 13:07		SY/MD	Ok
6	VV1003WBSD01	VV1003WBSD01	VV039246.D	03 Oct 2025 13:29		SY/MD	Ok
7	Q3263-01	251818	VV039247.D	03 Oct 2025 14:19	Surrogate fail	SY/MD	ReRun
8	Q3263-02	266380	VV039248.D	03 Oct 2025 14:42	Surrogate fail	SY/MD	ReRun
9	Q3201-07	FIELD-BLANK	VV039249.D	03 Oct 2025 15:04	FB	SY/MD	Ok
10	Q3201-08	TRIP-BLANK	VV039250.D	03 Oct 2025 15:27	TB	SY/MD	Ok
11	Q3254-09	TRIP-BLANK	VV039251.D	03 Oct 2025 15:49	TB	SY/MD	Ok
12	Q3254-01	MW-1	VV039252.D	03 Oct 2025 16:11		SY/MD	Ok
13	Q3254-03	MW-2	VV039253.D	03 Oct 2025 16:34		SY/MD	Ok
14	Q3254-05	MW-3	VV039254.D	03 Oct 2025 16:56		SY/MD	Ok
15	Q3254-07	MW-4	VV039255.D	03 Oct 2025 17:19		SY/MD	Ok
16	Q3201-01	MW6	VV039256.D	03 Oct 2025 17:41	Need 100X	SY/MD	Dilution
17	Q3201-02	MW14	VV039257.D	03 Oct 2025 18:04	Need 100X	SY/MD	Dilution

Instrument ID: MSVOA_V

Daily Analysis Runlog For Sequence/QC Batch ID # VV100325

Review By	Mahesh Dadoda	Review On	10/6/2025 4:25:08 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	10/6/2025 4:29:07 AM		
SubDirectory	VV100325	HP Acquire Method	MSVOA_V	HP Processing Method	82v092225w.m
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP135740			
CCC		VP135741,VP135742			
Internal Standard/PEM		VP133935			
ICV/I.BLK					
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

18	Q3201-03	MW15	VV039258.D	03 Oct 2025 18:26	E flag of previous sample	SY/MD	ReRun
19	Q3201-04	MW10	VV039259.D	03 Oct 2025 18:49	Need Straight Run	SY/MD	Not Ok
20	Q3201-05	MW1	VV039260.D	03 Oct 2025 19:11	CCC Failed High;Need 40X	SY/MD	ReRun
21	Q3201-06	MW3	VV039261.D	03 Oct 2025 19:34	E flag of previous sample; Run @ lower dilution; CCC Failed High	SY/MD	Not Ok
22	VIBLK	VIBLK	VV039262.D	03 Oct 2025 19:56		SY/MD	Ok
23	VSTDCCC050	VSTDCCC050EC	VV039263.D	03 Oct 2025 20:19		SY/MD	Ok

M : Manual Integration

Prep Standard - Chemical Standard Summary

Order ID : Q3254

Test : VOCMS Group1

Prepbatch ID :

Sequence ID/Qc Batch ID: VV100325,

Standard ID :

VP133935,VP133953,VP134142,VP134149,VP134933,VP135480,VP135552,VP135740,VP135741,VP135742,

Chemical ID :

V13391,V14200,V14204,V14205,V14290,V14509,V14510,V14531,V14532,V14625,V14626,V14636,V14637,V14638,V14639,V14668,V14671,V14673,V14675,V14727,V14728,V14803,V14815,V14844,V14906,V14921,V14928,V14929,V14951,V14952,V15066,V15067,V15068,W3112,

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
247	8260 Internal Standard, 250PPM	VP133935	05/16/2025	11/12/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
05/21/2025								

FROM 0.25000ml of V14290 + 24.75000ml of V14921 = Final Quantity: 25.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
218	BFB, 25PPM	VP133953	05/19/2025	11/09/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
05/21/2025								

FROM 0.25000ml of V13391 + 24.75000ml of V14626 = Final Quantity: 25.000 ml

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
719	8260 Working STD (BCM)-First source, 400PPM	VP134142	06/06/2025	12/06/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								06/10/2025

FROM 1.00000ml of V14668 + 1.00000ml of V14671 + 1.00000ml of V14673 + 1.00000ml of V14675 + 16.00000ml of V14929 = Final
Quantity: 20.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1810	8260 Working Std(2-CVE)-800ppm	VP134149	06/06/2025	12/06/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								06/10/2025

FROM 1.00000ml of V14636 + 1.00000ml of V14637 + 1.00000ml of V14638 + 1.00000ml of V14639 + 46.00000ml of V14929 = Final
Quantity: 50.000 ml

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
617	8260 Surrogate, 400PPM	VP134933	07/29/2025	01/29/2026	Semsettin Yesilyurt	None	None	Maresh Dadoda
								08/19/2025

FROM 0.40000ml of V14906 + 24.60000ml of V14625 = Final Quantity: 25.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
51	8260 Working STD (Acrolein) -first source, 800PPM	VP135480	09/16/2025	10/15/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								09/19/2025

FROM 1.00000ml of V15066 + 1.50000ml of V15067 + 1.50000ml of V15068 + 21.00000ml of V14625 = Final Quantity: 25.000 ml

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
257	8260 Calibration Working STD Mix-First source, 160PPM	VP135552	09/22/2025	11/03/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda 09/26/2025

FROM 0.40000ml of V14844 + 1.00000ml of V14200 + 1.00000ml of V14509 + 1.00000ml of V14510 + 1.00000ml of V14531 + 1.00000ml of V14532 + 1.00000ml of V14727 + 1.00000ml of V14728 + 1.00000ml of V14803 + 1.00000ml of V14815 + 1.00000ml of V14951 + 1.00000ml of V14952 + 1.50000ml of V14204 + 1.50000ml of V14205 + 10.60000ml of V14928 = Final Quantity: 25.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
589	BFB TUNE CHECK	VP135740	10/03/2025	10/04/2025	Maresh Dadoda	None	None	Semsettin Yesilyurt 10/06/2025

FROM 39.98400ml of W3112 + 0.01600ml of VP133953 = Final Quantity: 40.000 ml

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
620	50 PPB CCC, 8260-Water	VP135741	10/03/2025	10/04/2025	Mahesh Dadoda	None	None	Semsettin Yesilyurt
FROM 39.94450ml of W3112 + 0.00500ml of VP134142 + 0.00500ml of VP134933 + 0.00800ml of VP133935 + 0.01250ml of VP134149 + 0.01250ml of VP135480 + 0.01250ml of VP135552 = Final Quantity: 40.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
620	50 PPB CCC, 8260-Water	VP135742	10/03/2025	10/04/2025	Mahesh Dadoda	None	None	Semsettin Yesilyurt
FROM 39.94450ml of W3112 + 0.00500ml of VP134142 + 0.00500ml of VP134933 + 0.00800ml of VP133935 + 0.01250ml of VP134149 + 0.01250ml of VP135480 + 0.01250ml of VP135552 = Final Quantity: 40.000 ml								

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30067 / BFB tuneing solution	A0191805	11/22/2025	11/22/2024 / SAM	01/13/2023 / SAM	V13391

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0200785	03/22/2026	09/22/2025 / sam	02/28/2024 / SAM	V14200

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0200785	03/22/2026	09/22/2025 / sam	02/28/2024 / SAM	V14204

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0200785	03/22/2026	09/22/2025 / sam	02/28/2024 / SAM	V14205

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555581 / Custom Standard, 8260 Internal Std [CS 5179-1]	A0210184	12/12/2025	12/12/2024 / SAM	04/15/2024 / SAM	V14290

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021624	03/22/2026	09/22/2025 / sam	09/17/2024 / SAM	V14509

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021624	03/22/2026	09/22/2025 / sam	09/17/2024 / SAM	V14510

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	091724	03/22/2026	09/22/2025 / sam	09/18/2024 / SAM	V14531

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	091724	03/22/2026	09/22/2025 / sam	09/18/2024 / SAM	V14532

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	2310762004	01/29/2026	07/29/2025 / SAM	11/26/2024 / SAM	V14625

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	2310762004	11/09/2025	05/09/2025 / SAM	11/26/2024 / SAM	V14626

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	V14636

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	V14637

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	V14638

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	V14639

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0214960	12/06/2025	06/06/2025 / SAM	12/09/2024 / SAM	V14668

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0214960	12/06/2025	06/06/2025 / SAM	12/09/2024 / SAM	V14671

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0214960	12/06/2025	06/06/2025 / SAM	12/09/2024 / SAM	V14673

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0214960	12/06/2025	06/06/2025 / SAM	12/09/2024 / SAM	V14675

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix, 500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0216826	03/22/2026	09/22/2025 / sam	12/17/2024 / SAM	V14727

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix, 500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0216826	03/22/2026	09/22/2025 / sam	12/17/2024 / SAM	V14728

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE	A0220471	03/22/2026	09/22/2025 / sam	01/08/2025 / SAM	V14803

LOTS

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE	A0220471	03/22/2026	09/22/2025 / sam	01/08/2025 / SAM	V14815

LOTS

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30470 / VOA Stock Solution, tert-butanol std, 1mL, P&TM	A0217535	03/22/2026	09/22/2025 / sam	01/21/2025 / SAM	V14844

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555582 / Custom Mixture, 8260 A/B Surrogate Mix [CS 5179-2]	A0223904	07/29/2026	07/29/2025 / SAM	03/24/2025 / SAM	V14906

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	24G0262002	11/12/2025	05/12/2025 / SAM	05/09/2025 / SAM	V14921

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	24G0262002	03/22/2026	09/22/2025 / sam	05/09/2025 / SAM	V14928

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	24G0262002	12/06/2025	06/06/2025 / SAM	05/09/2025 / SAM	V14929

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0222076	03/22/2026	09/22/2025 / sam	05/19/2025 / SAM	V14951

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0222076	03/22/2026	09/22/2025 / sam	05/19/2025 / SAM	V14952

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	091525	10/15/2025	09/16/2025 / sam	09/16/2025 / sam	V15066

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	091525	10/15/2025	09/16/2025 / sam	09/16/2025 / sam	V15067

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	091525	10/15/2025	09/16/2025 / sam	09/16/2025 / sam	V15068

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / lwona	07/03/2024 / lwona	W3112

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



Material No.: 9077-02
Batch No.: 23I0762004
Manufactured Date: 2023-08-11
Expiration Date: 2026-08-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.5 ppm
Titration Acid (μeq/g)	≤ 0.3	0.2
Titration Base (μeq/g)	≤ 0.10	0.01
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Ken Koehnlein
Sr. Manager, Quality Assurance

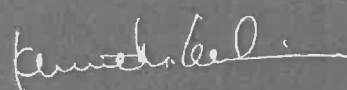
Material No.: 9077-02
Batch No.: 23I0762004
Manufactured Date: 2023-08-11
Expiration Date: 2026-08-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.5 ppm
Titration Acid (μeq/g)	≤ 0.3	0.2
Titration Base (μeq/g)	≤ 0.10	0.01
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC



Ken Koehnlein
Sr. Manager, Quality Assurance



Ree 03117/24

CERTIFIED WEIGHT REPORT

Part Number: 95317

Lot Number: 021624

Description: Universal VOA Megamix

69 components

Expiration Date: 021627

Recommended Storage: Freezer (0 °C)

Nominal Concentration (µg/mL): 2000

NIST Test ID#: BUTB

Solvent(s): Lot#
Methanol EG359-USQ12

Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty

5E-05 Balance Uncertainty

Flask Uncertainty

Formulated By:	Prashant Chauhan	021624
Reviewed By:	Pedro L. Renteria	021624
DATE		

Compound	(K049)	Lot	Dir.	Initial	Initial	Nominal	Purity	Purity	Uncertainty	Target	Actual	Actual	Expanded	SDS Information				
	Part Number	Number	Factor	Vol. (mL)	Conc.(µg/mL)	Conc (µg/mL)	(%)	Uncertainty	Pipette (mL)	Weight(g)	Weight(g)	Conc (µg/mL)	Uncertainty	(µg/mL)	(Solvent Safety Info. On Attached pg.)	CASE	OSHA PEL (TWA)	LD50
1. Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-05-8	40 ppm (70mg/m3/8H)	or-rat 2450mg/kg		
2. Allyl chloride (3-Chloropropene)	(0325)	102396	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	107-05-1	1 ppm (3mg/m3/8H)	or-rat 700mg/kg		
3. Carbon disulfide	(0060)	MKCR8561	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20023	2001.6	8.1	75-15-0	4 ppm (12mg/m3) (skin)	or-rat 1200mg/kg		
4. cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21056	0.21069	2001.1	8.5	1478-11-5	N/A	N/A		
5. trans-1,4-Dichloro-2-butene	(0486)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20746	2001.7	8.4	110-57-6	N/A	N/A		
6. Diethyl ether	(0153)	IK18CAS000C	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	60-29-7	N/A	N/A		
7. Ethyl methacrylate	(0381)	06128PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	N/A	or-rat 14800mg/kg		
8. Iodomethane	(0489)	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20121	2001.5	8.2	74-88-4	5 ppm(28mg/m3/8H)(skin)	or-rat 75mg/kg		
9. 2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8H)	or-rat 2460mg/kg		
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	128-98-7	1 ppm (3mg/m3/8H)(skin)	or-rat 120mg/kg		
11. Methyl acrylate	(0755)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	96-33-3	10 ppm(35mg/m3/8H)(skin)	or-rat 277mg/kg		
12. Methyl methacrylate	(0404)	MKGW6137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H)	or-rat 7872mg/kg		
13. Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8H)(skin)	or-rat 780mg/kg		
14. 2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	78-46-9	10 ppm (35mg/m3/8H)	or-rat 720mg/kg		
15. Perchloroethane	(0460)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	78-01-7	N/A	N/A		
16. 1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	76-13-1	1000 ppm (7600mg/m3/8H)	or-rat 43g/kg		
17. Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	or-rat 915mg/kg		
18. Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	or-rat 848mg/kg		
19. cis-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	N/A	or-rat 848mg/kg		
20. trans-1,2-Dichloroethene	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	or-rat 1235mg/kg		
21. Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	or-rat 820mg/kg		
22. 1,1-Dichloroethane	32261	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-35-4	1 ppm (4mg/m3/8H)	or-rat 200mg/kg		
23. Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	or-rat 933mg/kg		
24. Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	or-rat 2350mg/kg		
25. Chloroform	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	67-68-3	60 ppm (240mg/m3) (CL)	or-rat 908mg/kg		
26. Dibromomethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	N/A	or-rat 106mg/kg		
27. 1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	or-rat 725mg/kg		
28. 2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	or-rat 725mg/kg		
29. Trichloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.8	20.8	127-18-4	25 ppm (170mg/m3/8H)(final)	or-rat 2629mg/kg		
30. 1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	or-rat 10300mg/kg		
31. 1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40018.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	86-12-8	0.001 ppm	or-rat 170mg/kg		
32. 1,2-Dibromoethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.7	22.9	108-93-4	20 ppm (8H)	or-rat 108mg/kg		
33. 1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-06-2	50 ppm (8H)	or-rat 670mg/kg		
34. 1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-87-5	75 ppm (350mg/m3/8H)	or-rat 1947mg/kg		
35. 1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	or-rat 3600mg/kg		
36. 1,1-Dichloropropane	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	28.7	563-58-6	N/A	N/A		
37. cis-1,3-Dichloropropane	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A		
38. trans-1,3-Dichloropropane	35161	112322	0.05	5.00	40017.6	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A		
39. Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	29.7	87-68-3	0.02 ppm (0.24mg/m3/8H)	or-rat 82mg/kg		
40. 1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	830-20-6	N/A	or-rat 670mg/kg		
41. 1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H)(skin)	or-rat 800mg/kg		
42. 1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (45mg/m3/8H)(skin)	or-rat 936mg/kg		
43. Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8H)	or-mus 2402mg/kg		
44. 1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (60mg/m3/8H)	or-rat 149.8mg/kg		
45. Benzene	35162	050823	0.05	5.00	40006.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	or-rat 4894mg/kg		
46. Bromobenzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	104-51-8	N/A	or-rat 2699mg/kg		
47. n-Butyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)	or-rat >2000mg/kg		
48. Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-6	N/A	or-rat 4750mg/kg		
49. p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8H)	or-rat 490mg/kg		
50. Naphthalene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	or-rat 5000mg/kg		
51. Styrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-98-3	200 ppm	or-rat 5000mg/kg		
52. Toluene	35162	050823	0.05	5.00	40008.2	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-81-6	N/A	or-rat 1390mg/kg		
53. 1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	or-rat 756mg/kg		
54. 1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.6	23.0	95-63-6	N/A	or-rat 5g/kg		
55. 1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-87-8	N/A	or-rat 5000mg/kg		
56. 1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	109-38-3	100 ppm (435mg/m3/8H)	or-rat 5g/kg		
57. m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	96-06-6	N/A	N/A		
58. tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	135-98-8	N/A	or-rat 2240mg/kg		
59. sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-90-7	75 ppm (350mg/m3/8H)	or-rat 2290mg/kg		
60. Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-49-8	50 ppm (250mg/m3/8H)	or-rat 3900mg/kg		
61. 2-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.5	22.9	106-43-4	N/A	or-rat 2100mg/kg		
62. 4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	19						

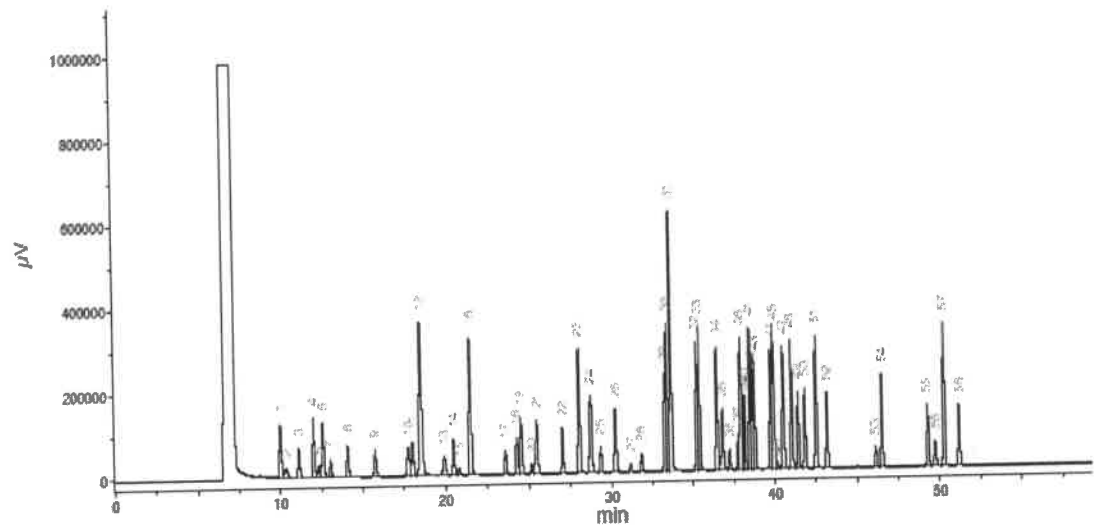


Run 16, "P95317 L021624 (2000µg/mL in MeOH)"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 8:56:46 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments

GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydrogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	9.97
2	1,1,2-Trichloro-1,2,2-trifluoroethane	10.53
3	1,1-Dichloroethane	11.10
4	Acetonitrile	12.60
5	Iodomethane	12.91
6	Allyl chloride	12.96
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethane	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethane	18.00
12	Hexamethylcyclotriphosphorotriazine/Hexyl acetate/Chloroform	18.49
13	Isobutanol/1,1,1-Trichloroethane	18.91
14	1,1-Dichloropropane	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.48
17	Trichloroethane	23.88
18	1,2-Dichloropropane	24.52
19	Methyl methacrylate	25.13
20	Bromochloropropane	25.13
21	Dibromomethane/2-Pentopropane	25.46
22	cis-1,2-Dichloroethane	27.07
23	Toluene	28.03
24	Ethyl methacrylate/Trans-1,2-Dichloropropane	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethane/1,2-Dichloropropane	30.94
27	Dibromochloromethane	31.16
28	1,2-Dibromomethane	32.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.85
32	o-Xylene	35.53
33	Styrene	35.70
34	Isopropylbenzene/Bromofarm	35.78
35	cis-1,4-Dichloro-3-butene	36.80
36	1,1,2-Trichloropropane	37.23
37	n-Propylbenzene	37.77
38	trans-1,4-Dichloro-3-butene	37.92
39	Bromobenzene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.50
42	Chlorobenzene	38.63
43	4-Chlorobenzene	38.77
44	tert-Butylbenzene	39.76
45	1,3,5-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropylbenzene	41.02
49	1,3-Trichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.52
52	1,2-Dichlorobenzene	42.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.40
55	1,2,4-Trifluorobenzene	49.28
56	Hexachlorocyclopentadiene	49.72
57	Naphthalene	50.56
58	1,2,3-Trichlorobenzene	51.16

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	1-352-323-3500
		Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225 H370 P271 P302,332	Highly Flammable Liquid and Vapor Cause damage to organs Use in ventilated area If on skin, wash with soap and water	H301, 311, 331 H351 P280 P305,351,338	Toxic if swallowed, skin contact, inhaled Suspected of causing cancer Use gloves, eye protection/face shield If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))	CAS#	% (optional)
Methanol METHYL ALCOHOL	67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Storage Conditions	Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1 TWA 200 ppm
Skin notation	TWA 200 ppm
Potential for skin absorption	ingestion and inhalation.
Personal protective equipment	Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing.	Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Ree 03117/24

CERTIFIED WEIGHT REPORT

Part Number: 95317

Lot Number: 021624

Description: Universal VOA Megamix

69 components

Expiration Date: 021627

Recommended Storage: Freezer (0 °C)

Nominal Concentration (µg/mL): 2000

NIST Test ID#: BUTB

Solvent(s): Lot#
Methanol EG359-USQ12

Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty

5E-05 Balance Uncertainty

Flask Uncertainty

Formulated By:	Prashant Chauhan	021624
Reviewed By:	Pedro L. Renteria	021624
DATE		

Compound	(K049)	Lot	Dir.	Initial	Initial	Nominal	Purity	Purity	Uncertainty	Target	Actual	Actual	Expanded	SDS Information			
	Part Number	Number	Factor	Vol. (mL)	Conc.(µg/mL)	Conc (µg/mL)	(%)	Uncertainty	Pipette (mL)	Weight(g)	Weight(g)	Conc (µg/mL)	Uncertainty	(+/-) (µg/mL)	CASE	OSHA PEL (TWA)	LD50
1. Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-05-8	40 ppm (70mg/m3/8H)	or-rat 2450mg/kg	
2. Allyl chloride (3-Chloropropene)	(0325)	102366	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	107-05-1	1 ppm (3mg/m3/8H)	or-rat 700mg/kg	
3. Carbon disulfide	(0060)	MKCR8561	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20023	2001.6	8.1	75-15-0	4 ppm (12mg/m3) (skin)	or-rat 1200mg/kg	
4. cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21056	0.21069	2001.1	8.5	1478-11-5	N/A	N/A	
5. trans-1,4-Dichloro-2-butene	(0486)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20746	2001.7	8.4	110-57-6	N/A	N/A	
6. Diethyl ether	(0153)	IK18CAS000C	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	60-29-7	N/A	N/A	
7. Ethyl methacrylate	(0381)	06128PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	N/A	or-rat 14800mg/kg	
8. Iodomethane	(0489)	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20121	2001.5	8.2	74-88-4	5 ppm(28mg/m3/8H)(skin)	or-rat 75mg/kg	
9. 2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8H)	or-rat 2460mg/kg	
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	128-98-7	1 ppm (3mg/m3/8H)(skin)	or-rat 120mg/kg	
11. Methyl acrylate	(0755)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	96-33-3	10 ppm(35mg/m3/8H)(skin)	or-rat 277mg/kg	
12. Methyl methacrylate	(0404)	MKGW6137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H)	or-rat 7872mg/kg	
13. Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8H)(skin)	or-rat 780mg/kg	
14. 2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	78-46-9	10 ppm (35mg/m3/8H)	or-rat 720mg/kg	
15. Perchloroethane	(0460)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	78-01-7	N/A	N/A	
16. 1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	76-13-1	1000 ppm (7600mg/m3/8H)	or-rat 43g/kg	
17. Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	or-rat 915mg/kg	
18. Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	or-rat 848mg/kg	
19. cis-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	N/A	or-rat 848mg/kg	
20. trans-1,2-Dichloroethene	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	or-rat 1235mg/kg	
21. Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	or-rat 820mg/kg	
22. 1,1-Dichloroethane	32261	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-35-4	1 ppm (4mg/m3/8H)	or-rat 200mg/kg	
23. Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	or-rat 933mg/kg	
24. Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	or-rat 2350mg/kg	
25. Chloroform	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	67-68-3	60 ppm (240mg/m3) (CL)	or-rat 908mg/kg	
26. Dibromomethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	N/A	or-rat 106mg/kg	
27. 1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	or-rat 725mg/kg	
28. 2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	N/A	
29. Trichloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.8	20.8	127-18-4	25 ppm (170mg/m3/8H)(final)	or-rat 2629mg/kg	
30. 1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	or-rat 10300mg/kg	
31. 1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40018.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-8	0.001 ppm	or-rat 170mg/kg	
32. 1,2-Dibromoethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.7	22.9	108-93-4	20 ppm (8H)	or-rat 108mg/kg	
33. 1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-06-2	50 ppm (8H)	or-rat 670mg/kg	
34. 1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-87-5	75 ppm (350mg/m3/8H)	or-rat 1947mg/kg	
35. 1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	or-rat 3600mg/kg	
36. 1,1-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	28.7	563-58-6	N/A	N/A	
37. cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A	
38. trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.6	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A	
39. Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	29.7	87-68-3	0.02 ppm (0.24mg/m3/8H)	or-rat 82mg/kg	
40. 1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	830-20-6	N/A	or-rat 670mg/kg	
41. 1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H)(skin)	or-rat 800mg/kg	
42. 1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (45mg/m3/8H)(skin)	or-rat 936mg/kg	
43. Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8H)	or-mus 2402mg/kg	
44. 1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (60mg/m3/8H)	or-rat 149.8mg/kg	
45. Benzene	35162	050823	0.05	5.00	40006.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	or-rat 4894mg/kg	
46. Bromobenzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	104-51-8	N/A	or-rat 2699mg/kg	
47. n-Butyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)	or-rat >2000mg/kg	
48. Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-6	N/A	or-rat 4750mg/kg	
49. p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8H)	or-rat 490mg/kg	
50. Naphthalene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	or-rat 5000mg/kg	
51. Styrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-98-3	200 ppm (435mg/m3/8H)	or-rat 5000mg/kg	
52. Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-81-6	N/A	or-mus 1390mg/kg	
53. 1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	or-rat 756mg/kg	
54. 1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.6	23.0	95-63-6	N/A	or-rat 5g/kg	
55. 1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-87-8	N/A	or-rat 5000mg/kg	
56. 1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	109-38-3	100 ppm (435mg/m3/8H)	or-rat 5g/kg	
57. m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	96-06-6	N/A	N/A	
58. tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	135-98-8	N/A	or-rat 2240mg/kg	
59. sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-90-7	75 ppm (350mg/m3/8H)	or-rat 2290mg/kg	
60. Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-49-8	50 ppm (250mg/m3/8H)	or-rat 3900mg/kg	
61. 2-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	or-rat 2100mg/kg	
62. 4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	50 ppm (300mg/m3) (CL)	or-rat 500mg/kg	
63. 1,2-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73-1	N/A	or-mus 1060mg/kg	
64																	

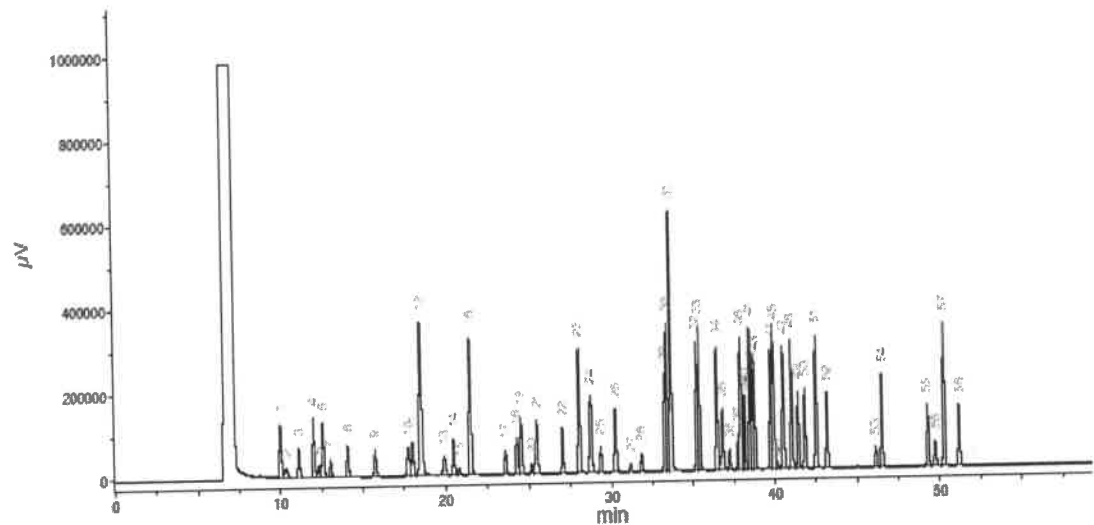


Run 16, "P95317 L021624 (2000µg/mL in MeOH)"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 8:56:46 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments

GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydrogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	9.97
2	1,1,2-Trichloro-1,2,2-trifluoroethane	10.53
3	1,1-Dichloroethane	11.10
4	Acetonitrile	12.60
5	Iodomethane	12.91
6	Allyl chloride	12.96
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethane	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethane	18.00
12	Methoxyvinyltoluene/Methyl acrylate/Chloroform	18.49
13	Isobutene/1,1,1-Trichloroethane	18.91
14	1,1-Dichloropropane	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.48
17	Trichloroethane	23.88
18	1,2-Dichloropropane	24.52
19	Methyl methacrylate	25.13
20	Bromochloropropane	25.13
21	Dibromomethane/2,2-Dichloropropane	25.46
22	cis-1,2-Dichloroethane	27.07
23	Toluene	28.03
24	Ethyl methacrylate/Trans-1,2-Dichloropropane	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethane/1,2-Dichloropropane	30.94
27	Dibromochloromethane	31.16
28	1,2-Dibromomethane	32.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.85
32	o-Xylene	35.53
33	Styrene	35.70
34	Isopropylbenzene/Bromofarm	35.78
35	cis-1,4-Dichloro-3-butene	36.80
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,2-Trichloropropane	37.77
38	n-Propylbenzene	37.92
39	trans-1,4-Dichloro-3-butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.50
42	Chlorobenzene	38.63
43	4-Chlorobenzene	38.77
44	tert-Butylbenzene	39.76
45	1,3,5-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropylbenzene	41.02
49	1,3-Trichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.52
52	1,2-Dichlorobenzene	42.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.40
55	1,2,4-Trichlorobenzene	49.28
56	Hexachlorocyclopentadiene	49.72
57	Naphthalene	50.56
58	1,2,3-Trichlorobenzene	51.16

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	1-352-323-3500
		Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225 H370 P271 P302,332	Highly Flammable Liquid and Vapor Cause damage to organs Use in ventilated area If on skin, wash with soap and water	H301, 311, 331 H351 P280 P305,351,338	Toxic if swallowed, skin contact, inhaled Suspected of causing cancer Use gloves, eye protection/face shield If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))	CAS#	% (optional)
Methanol METHYL ALCOHOL	67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Storage Conditions	Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1 TWA 200 ppm
Skin notation	TWA 200 ppm
Potential for skin absorption	ingestion and inhalation.
Personal protective equipment	Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing.	Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Certified Reference Material CRM

Dec 09/17/24

2 vials

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: **91980**
Lot Number: **091424**
Description: **Acrolein**Solvent(s):
Water
Lot#
072324Q

Formulated By:	Justin Dippold
DATE: 091424	
Reviewed By:	Pedro L. Rentas
DATE: 091424	

Expiration Date: 101424

Recommended Storage: Refrigerate (4 °C)

Nominal Concentration (µg/mL): 5000

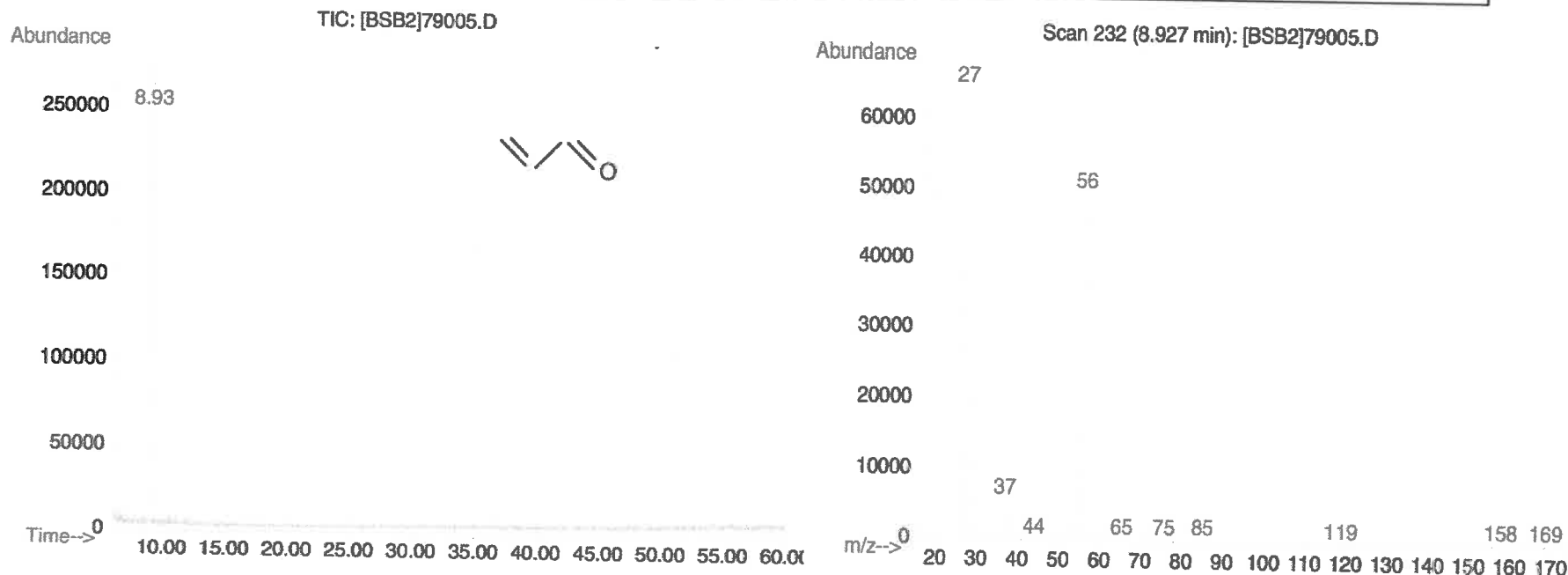
NIST Test ID#: 6UTB

5E-05 Balance Uncertainty

Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05175	5008.9	52.5	107-02-8	0.1 ppm	ori-rat 46mg/kg

Method: GC6MSD-1. Detector: Mass Selective Detector (Scan mode). Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2 = 200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas. NOTE: Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately. Long term storage is not recommended. Please contact our technical department if further information is required.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



Certified Reference Material CRM

Dec 09/17/24

2 vials

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: **91980**
Lot Number: **091424**
Description: **Acrolein**Solvent(s): **Water**
Lot#: **072324Q**

Formulated By:	Justin Dippold
DATE: 091424	
Reviewed By:	Pedro L. Rentas
DATE: 091424	

Expiration Date: 101424
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB
Weight(s) shown below were combined and diluted to (mL): 10.0
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05175	5008.9	52.5	107-02-8	0.1 ppm	ori-rat 46mg/kg

Method: GC6MSD-1. Detector: Mass Selective Detector (Scan mode). Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2 = 200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas. NOTE: Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately. Long term storage is not recommended. Please contact our technical department if further information is required.

Abundance TIC: [BSB2]79005.D

Scan 232 (8.927 min): [BSB2]79005.D

250000 8.93

200000

150000

100000

50000

Time--> 0

10.00 15.00 20.00 25.00 30.00 35.00 40.00 45.00 50.00 55.00 60.00



Abundance

27

60000

50000

40000

30000

20000

10000

m/z--> 0

20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170

37

44

65

75

85

119

158 169

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



Certified Reference Material CRM



CERTIFIED WEIGHT REPORT

Part Number: **95318**
Lot Number: **120524**
Description: **2-Chloroethyl vinyl ether**

Solvent(s):
Methanol

Lot#
EJ143-US

Expiration Date: **120527**
Recommended Storage: **Refrigerate (4 °C)**
Nominal Concentration (µg/mL): **10000**
NIST Test ID#: **6UTB**

Weight(s) shown below were combined and diluted to (mL): **50.0**

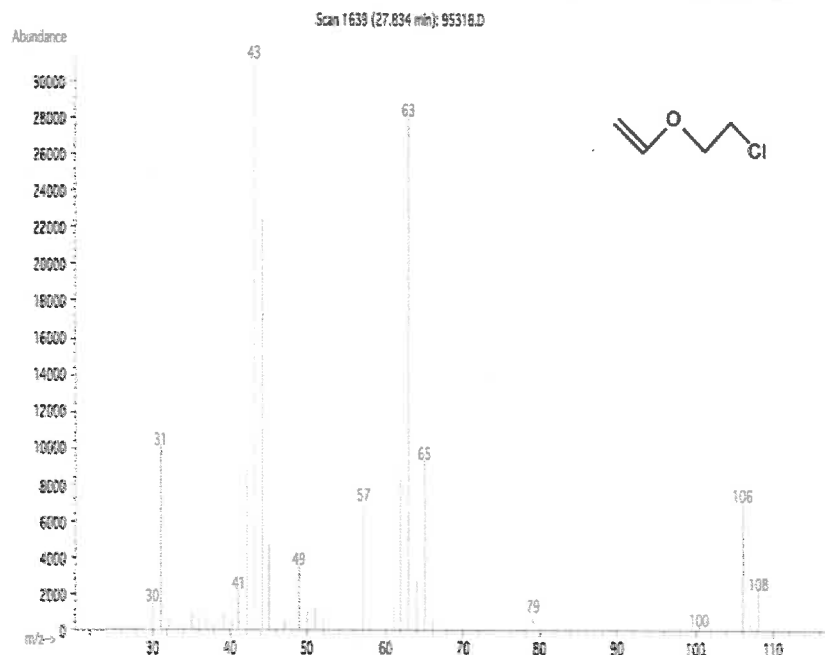
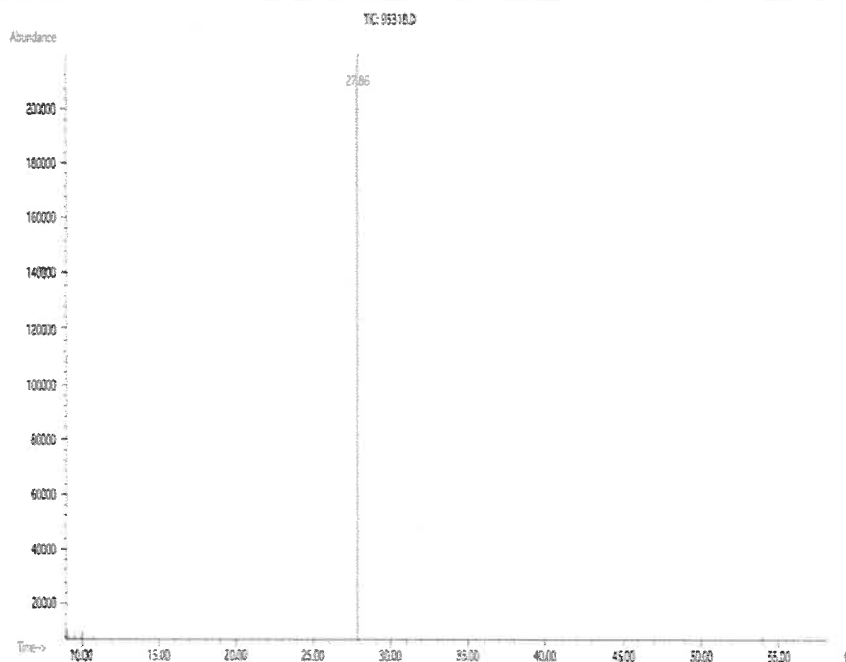
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Prashant Chauhan 120524
Formulated By: Prashant Chauhan DATE
Pedro L. Rentas 120524
Reviewed By: Pedro L. Rentas DATE

✓ 14630 to
✓ 14649

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min.,
Injector B Temp = 200°C, Detector B Temp = 220°C. Analyst: Candice Warren.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr.	Emergency Telephone International	1-352-323-3500
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
P302,332	If on skin, wash with soap and water	P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Methanol	METHYL ALCOHOL	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1	TWA 200 ppm
Skin notation		TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.		
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.		

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Certified Reference Material CRM



CERTIFIED WEIGHT REPORT

Part Number: **95318**
Lot Number: **120524**
Description: **2-Chloroethyl vinyl ether**

Solvent(s):
Methanol

Lot#
EJ143-US

Expiration Date: **120527**
Recommended Storage: **Refrigerate (4 °C)**
Nominal Concentration (µg/mL): **10000**
NIST Test ID#: **6UTB**

Weight(s) shown below were combined and diluted to (mL): **50.0**

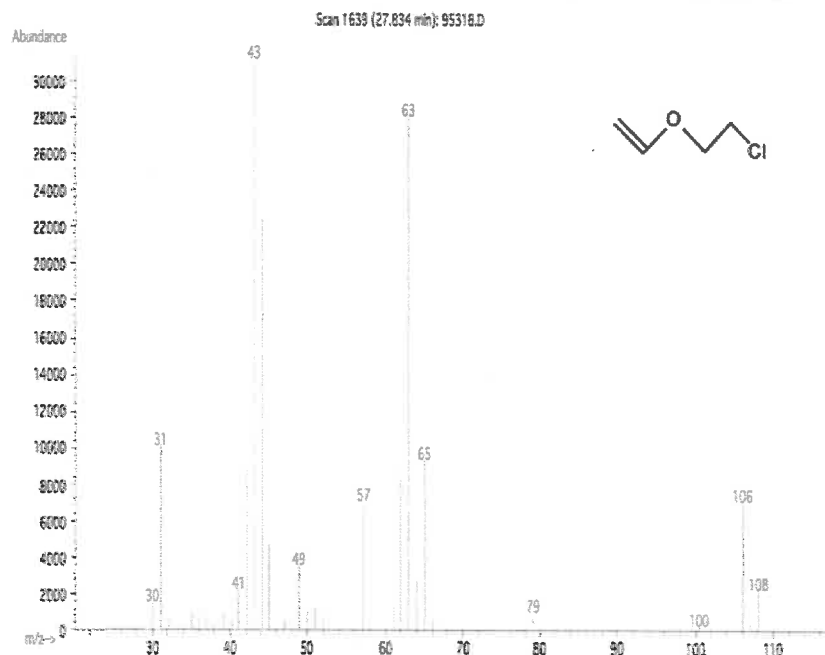
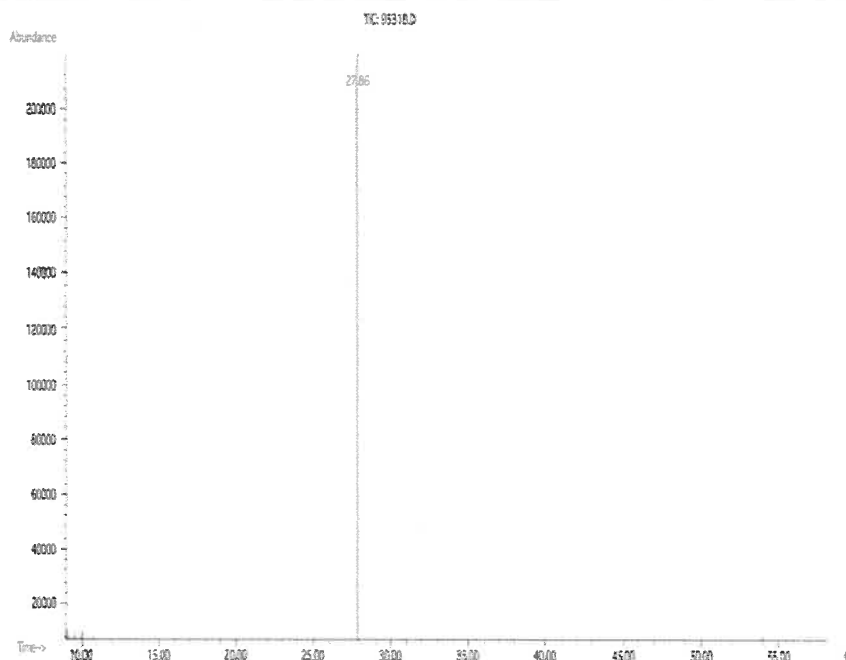
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Prashant Chauhan 120524
Formulated By: Prashant Chauhan DATE
Pedro L. Rentas 120524
Reviewed By: Pedro L. Rentas DATE

✓ 14630 to
✓ 14649

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp = 200°C, Detector B Temp = 220°C. Analyst: Candice Warren.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr.	Emergency Telephone International	1-352-323-3500
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
P302,332	If on skin, wash with soap and water	P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Methanol	METHYL ALCOHOL	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1	TWA 200 ppm
Skin notation		TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.		
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.		

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Certified Reference Material CRM



CERTIFIED WEIGHT REPORT

Part Number: **95318**
Lot Number: **120524**
Description: **2-Chloroethyl vinyl ether**

Solvent(s):
Methanol

Lot#
EJ143-US

Expiration Date: **120527**
Recommended Storage: **Refrigerate (4 °C)**
Nominal Concentration (µg/mL): **10000**
NIST Test ID#: **6UTB**

Weight(s) shown below were combined and diluted to (mL): **50.0**

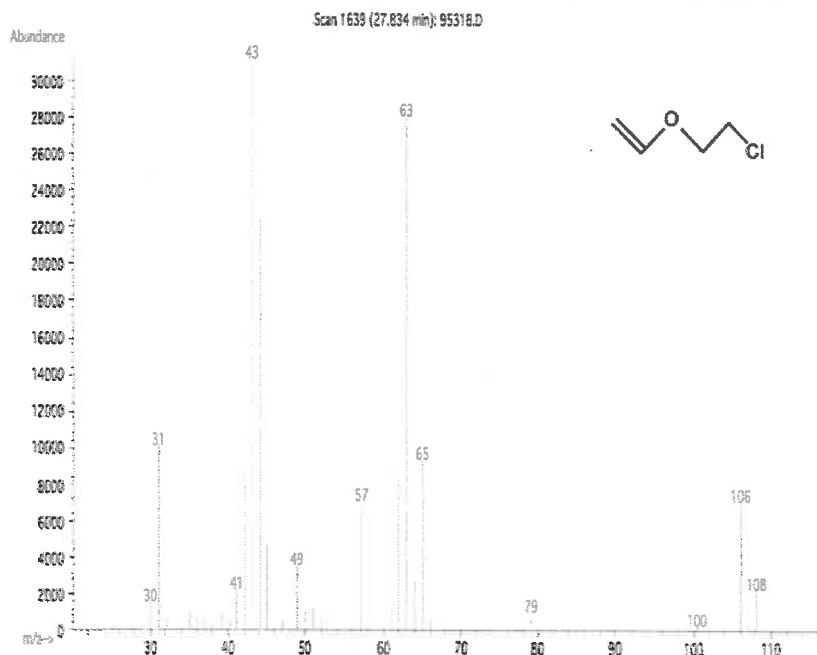
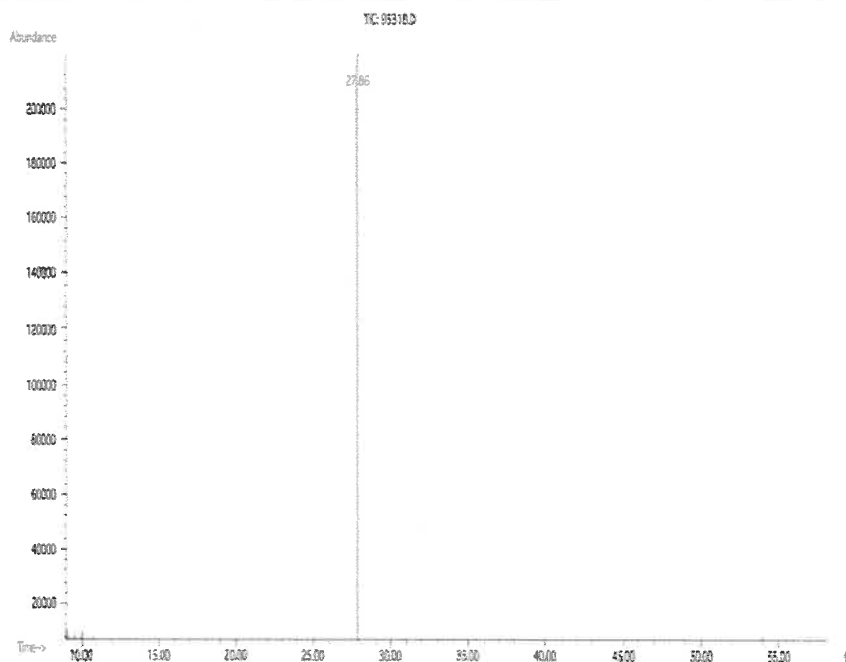
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Prashant Chauhan 120524
Formulated By: Prashant Chauhan DATE
Pedro L. Rentas 120524
Reviewed By: Pedro L. Rentas DATE

✓ 14630 to
✓ 14649

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp. = 200°C, Detector B Temp. = 220°C. Analyst: Candice Warren.



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- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
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Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr.	Emergency Telephone International	1-352-323-3500
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
P302,332	If on skin, wash with soap and water	P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Methanol	METHYL ALCOHOL	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1	TWA 200 ppm
Skin notation		TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.		
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.		

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Certified Reference Material CRM



CERTIFIED WEIGHT REPORT

Part Number: **95318**
Lot Number: **120524**
Description: **2-Chloroethyl vinyl ether**

Solvent(s):
Methanol

Lot#
EJ143-US

Expiration Date: **120527**
Recommended Storage: **Refrigerate (4 °C)**
Nominal Concentration (µg/mL): **10000**
NIST Test ID#: **6UTB**

Weight(s) shown below were combined and diluted to (mL): **50.0**

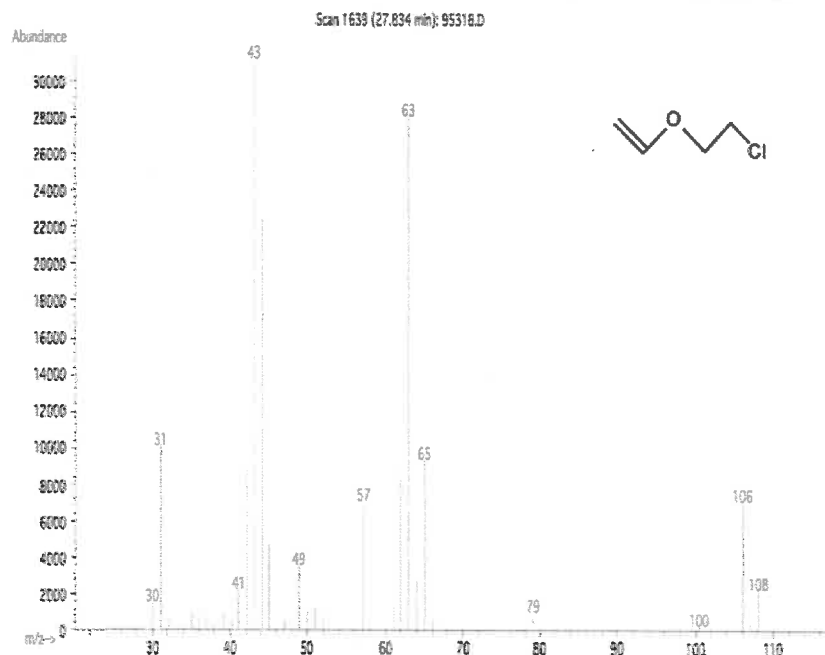
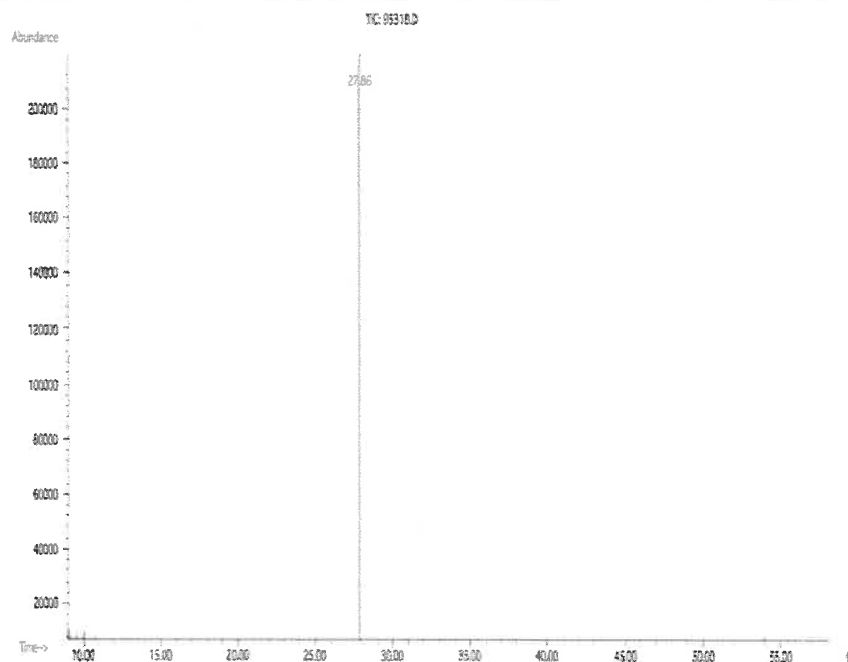
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Prashant Chauhan 120524
Formulated By: Prashant Chauhan DATE
Pedro L. Rentas 120524
Reviewed By: Pedro L. Rentas DATE

✓ 14630 to
✓ 14649

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded	SDS Information		
									Uncertainty (+/-) (µg/mL)	(Solvent Safety Info. On Attached pg.)	CAS#	OSHA PEL (TWA)
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min.,
Injector B Temp = 200°C, Detector B Temp = 220°C. Analyst: Candice Warren.



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- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr.	Emergency Telephone International	1-352-323-3500
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
P302,332	If on skin, wash with soap and water	P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Methanol	METHYL ALCOHOL	> 97
	CAS#: 67-56-1	

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1	TWA 200 ppm
Skin notation		TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.		
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.		

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30067 **Lot No.:** A0191805

Description : 4-Bromofluorobenzene Standard

4-Bromofluorobenzene Standard 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Bromo-4-fluorobenzene (BFB)	460-00-4	184975	99%	2,483.9 µg/mL	+/- 139.5488

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

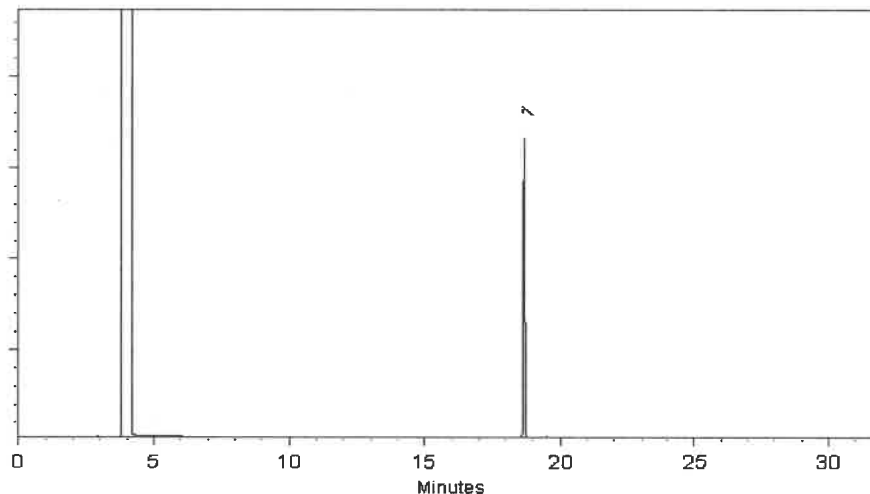
FID

Split Vent:

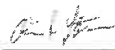
40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Alicia Leathers - Operation Technician I

Date Mixed: 17-Nov-2022

Balance Serial # B251644995


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 21-Nov-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

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- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0200785

Description : VOA Calibration Mix #1
VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBP8774	99%	5,018.5 µg/mL	+/- 173.4162
2	2-Butanone (MEK)	78-93-3	SHBL5543	99%	5,016.0 µg/mL	+/- 173.3298
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,010.7 µg/mL	+/- 173.1455
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,015.0 µg/mL	+/- 173.2952

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

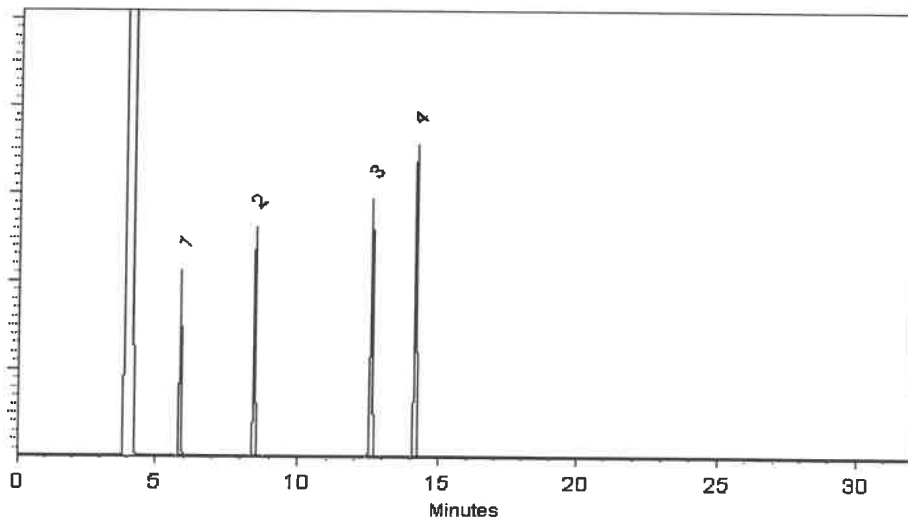
FID

Split Vent:

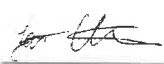
40 ml/min

Inj. Vol

1µl



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Laith Clemente - Operations Technician I

Date Mixed: 09-Aug-2023

Balance Serial # B707717271


Marlina Cowan - Operations Tech II ARM QC

Date Passed: 16-Aug-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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Catalog No. : 30006 **Lot No.:** A0200785

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBP8774	99%	5,018.5 µg/mL	+/- 173.4162
2	2-Butanone (MEK)	78-93-3	SHBL5543	99%	5,016.0 µg/mL	+/- 173.3298
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,010.7 µg/mL	+/- 173.1455
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,015.0 µg/mL	+/- 173.2952

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

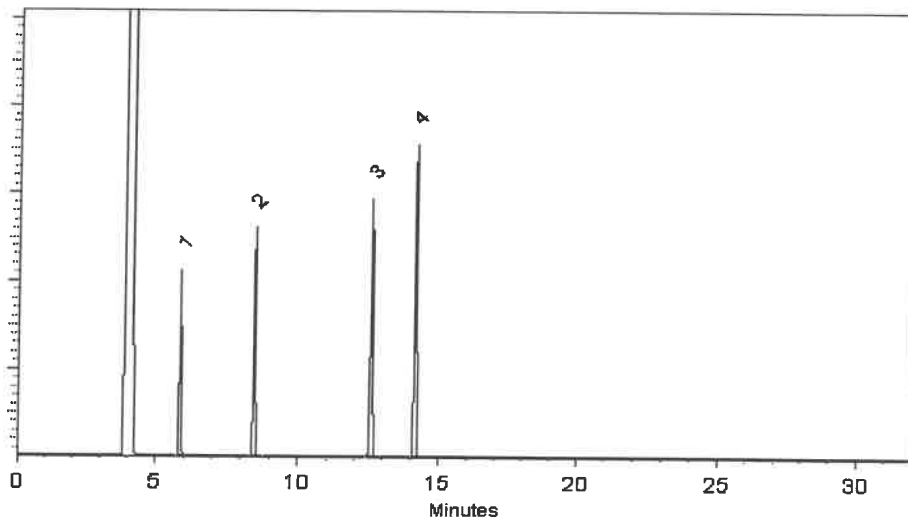
FID

Split Vent:

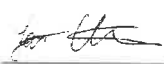
40 ml/min

Inj. Vol

1µl



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Laith Clemente - Operations Technician I

Date Mixed: 09-Aug-2023

Balance Serial # B707717271


Marlina Cowan - Operations Tech II ARM QC

Date Passed: 16-Aug-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
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Purity Notes:

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- Purity of isomeric compounds is reported as the sum of the isomers.
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k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0200785

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBP8774	99%	5,018.5 µg/mL	+/- 173.4162
2	2-Butanone (MEK)	78-93-3	SHBL5543	99%	5,016.0 µg/mL	+/- 173.3298
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,010.7 µg/mL	+/- 173.1455
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,015.0 µg/mL	+/- 173.2952

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

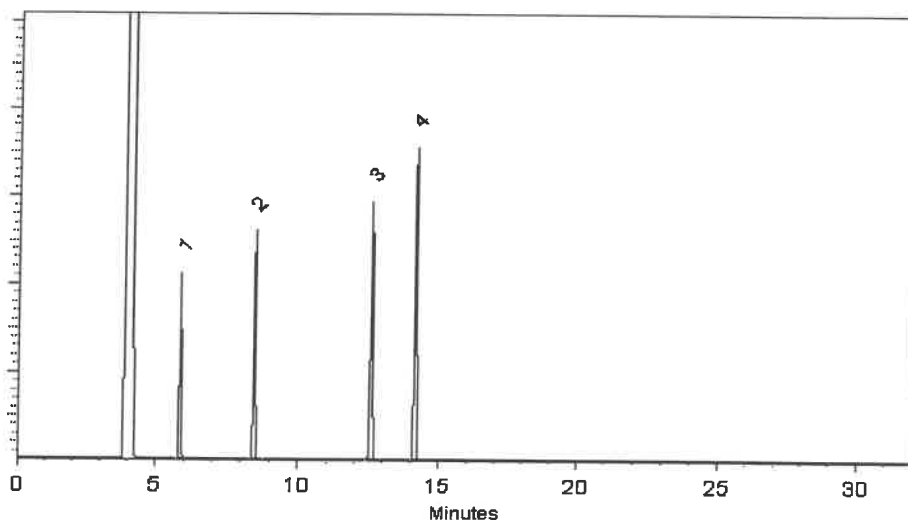
FID

Split Vent:

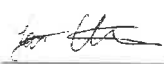
40 ml/min

Inj. Vol

1µl



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Laith Clemente - Operations Technician I

Date Mixed: 09-Aug-2023

Balance Serial # B707717271


Marlina Cowan - Operations Tech II ARM QC

Date Passed: 16-Aug-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

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gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555581 **Lot No.:** A0210184

Description : Custom 8260 Internal Standard Mix

Custom 8260 Internal Standard Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

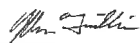
Expiration Date : April 30, 2027 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	25,212.0 µg/mL	+/- 1,427.8857
2	1,4-Difluorobenzene	540-36-3	MKCS8657	99%	25,220.0 µg/mL	+/- 1,428.3388
3	Chlorobenzene-d5	3114-55-4	PR-31132	99%	25,116.0 µg/mL	+/- 1,422.4487
4	Pentafluorobenzene	363-72-4	MKCR9383	99%	25,180.0 µg/mL	+/- 1,426.0734

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%


John Friedline - Operations Technician I

Date Mixed: 11-Apr-2024

Balance: 1127510105

REVISED
By Restek America, Inc. 11/15/24

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
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10 vial.
Dec: 12/09/24
CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus
V14667
V14676



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0214960
Description : Bromochloromethane Standard
Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : August 31, 2029 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	SYN240416CTH	99%	2,012.0 µg/mL	+/- 113.0519

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

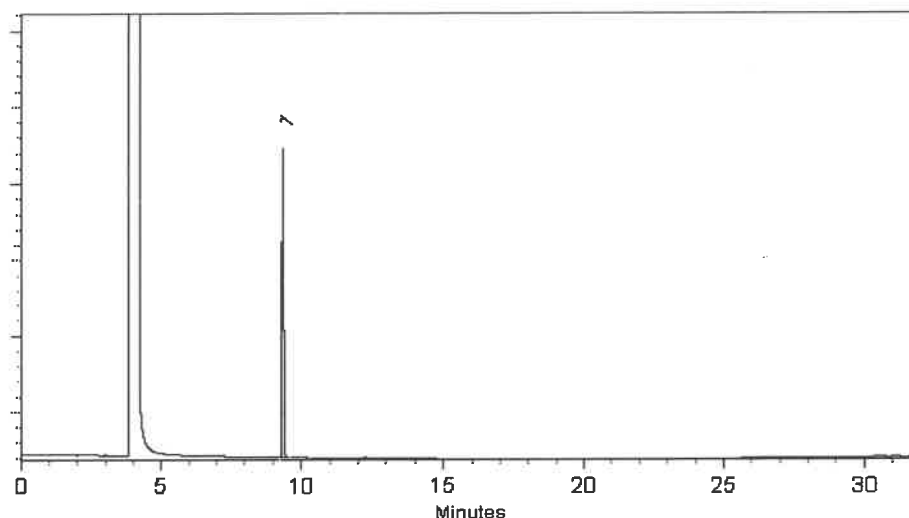
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Stacey Wanner - Operations Technician I

Date Mixed: 08-Aug-2024

Balance Serial # 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Aug-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis
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V14667
V14676



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0214960
Description : Bromochloromethane Standard
Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : August 31, 2029 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	SYN240416CTH	99%	2,012.0 µg/mL	+/- 113.0519

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

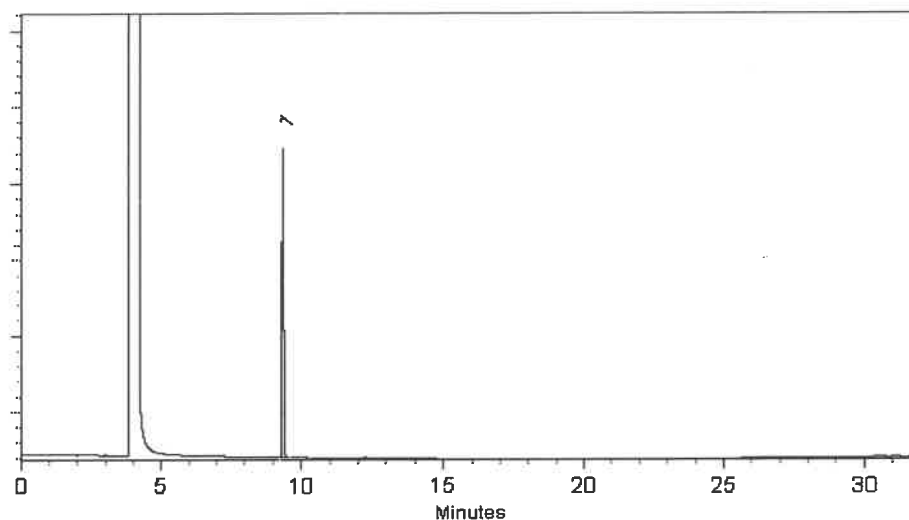
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Stacey Wanner - Operations Technician I

Date Mixed: 08-Aug-2024

Balance Serial # 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Aug-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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V14667
V14676



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0214960
Description : Bromochloromethane Standard
Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : August 31, 2029 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	SYN240416CTH	99%	2,012.0 µg/mL	+/- 113.0519

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

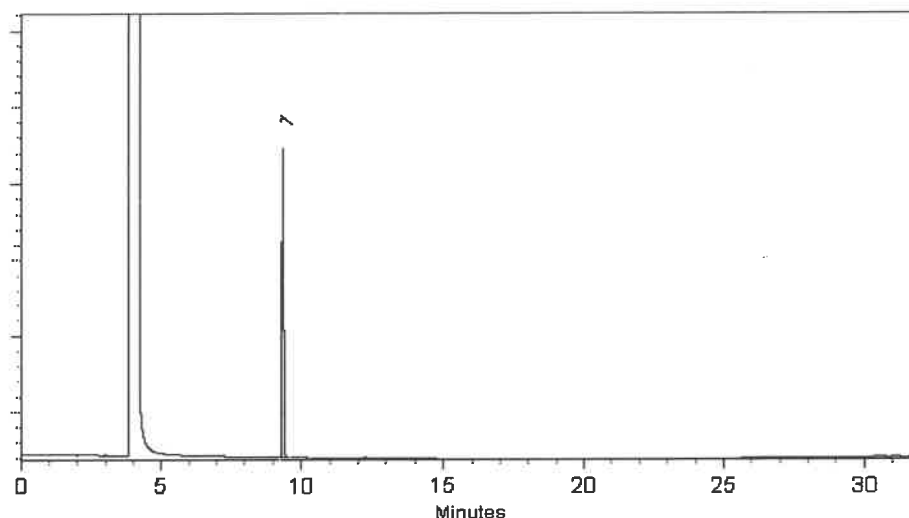
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Stacey Wanner - Operations Technician I

Date Mixed: 08-Aug-2024

Balance Serial # 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Aug-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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Certificate of Analysis
chromatographic plus
V14667
V14676



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0214960
Description : Bromochloromethane Standard
Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : August 31, 2029 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	SYN240416CTH	99%	2,012.0 µg/mL	+/- 113.0519

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

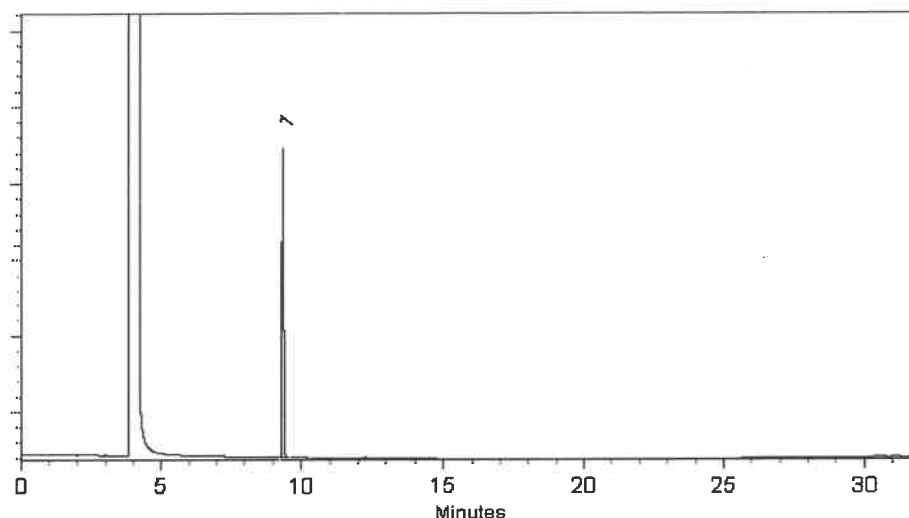
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Stacey Wanner - Operations Technician I

Date Mixed: 08-Aug-2024

Balance Serial # 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Aug-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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30 ml
Certificate of Analysis
chromatographic plus

V14727 to
V14756



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 Lot No.: A0216826
Description : 502.2 Calibration Mix #1
502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : May 31, 2031 Storage: 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00022922	99%	2,000.9 µg/mL	+/- 112.4144
2	Chloromethane (methyl chloride)	74-87-3	00022694	99%	2,000.7 µg/mL	+/- 112.3998
3	Vinyl chloride	75-01-4	00015559	99%	2,000.3 µg/mL	+/- 112.3779
4	Bromomethane (methyl bromide)	74-83-9	00017022	99%	2,001.8 µg/mL	+/- 112.4650
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.1 µg/mL	+/- 112.3700
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCJ8658	99%	2,000.7 µg/mL	+/- 112.3992

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:

helium-constant flow 2.0 mL/min.

Temp. Program:

40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

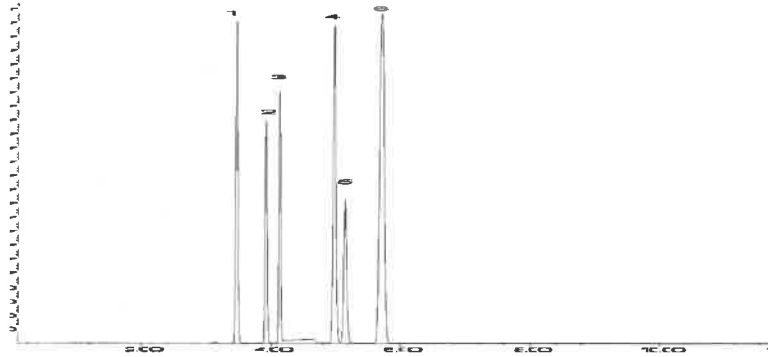
MSD

Split Vent:

Split ratio 10:1

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckal - Mix Technician

Date Mixed: 23-Sep-2024

Balance Serial # B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 04-Oct-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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V14727 to
V14756



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0216826
Description : 502.2 Calibration Mix #1
502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : May 31, 2031 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00022922	99%	2,000.9 µg/mL	+/- 112.4144
2	Chloromethane (methyl chloride)	74-87-3	00022694	99%	2,000.7 µg/mL	+/- 112.3998
3	Vinyl chloride	75-01-4	00015559	99%	2,000.3 µg/mL	+/- 112.3779
4	Bromomethane (methyl bromide)	74-83-9	00017022	99%	2,001.8 µg/mL	+/- 112.4650
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.1 µg/mL	+/- 112.3700
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCJ8658	99%	2,000.7 µg/mL	+/- 112.3992

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:

helium-constant flow 2.0 mL/min.

Temp. Program:

40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

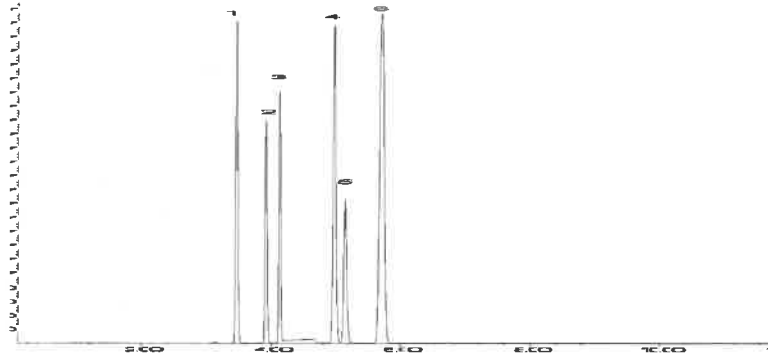
MSD

Split Vent:

Split ratio 10:1

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckal - Mix Technician

Date Mixed: 23-Sep-2024

Balance Serial # B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 04-Oct-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

✓ 14842 to 14846



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30470 **Lot No.:** A0217535
Description : tert-Butanol Standard
tert-Butanol Std 50,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : October 31, 2027 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	tert-Butanol (TBA)	75-65-0	SHBQ8002-1	99%	50,007.5 µg/mL	+/- 717.6137

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

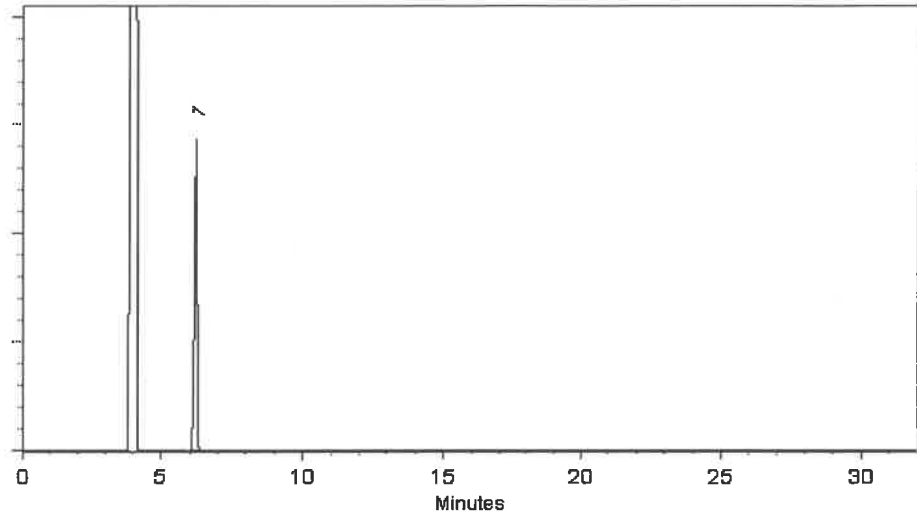
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

A. O. E.
Aaron Enyart - Operations Tech I

Date Mixed: 07-Oct-2024

Balance Serial # B251644995

Brittany Federinko
Brittany Federinko - Operations Tech I

Date Passed: 09-Oct-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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2014 Dec 01/08/21
CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic

V14803 - V14822



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-SL **Lot No.:** A0220471
Description : Custom Vinyl Acetate Standard
Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : June 30, 2026 **Storage:** -20°C or colder
Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Vinyl acetate	108-05-4	RD240423RSR	99%	8,066.0 µg/mL	+/- 278.7979

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

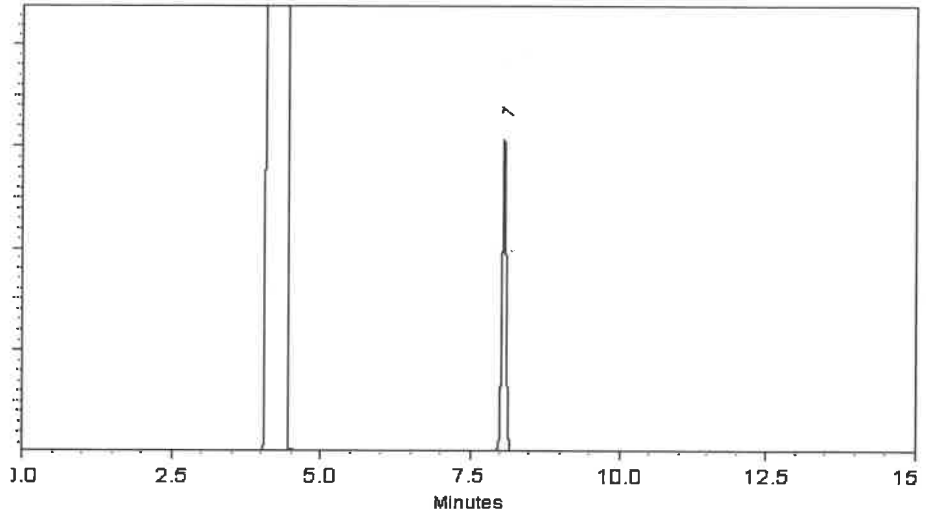
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

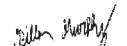


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Ethan Winiarski - Operations Tech I

Date Mixed: 24-Dec-2024

Balance Serial # 1127510105


Dillan Murphy - Operations Technician I

Date Passed: 02-Jan-2025

REVIEWED
By Jennifer Pabon at 7:12 am, Jan 05, 2025

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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Certificate of Analysis

chromatographic

V14803 - V14822



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-SL **Lot No.:** A0220471
Description : Custom Vinyl Acetate Standard
Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : June 30, 2026 **Storage:** -20°C or colder
Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Vinyl acetate	108-05-4	RD240423RSR	99%	8,066.0 µg/mL	+/- 278.7979

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

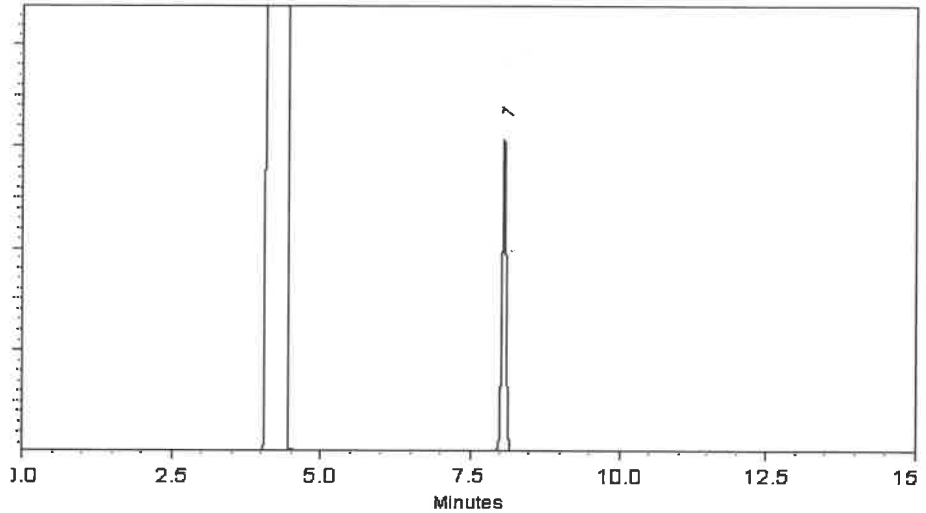
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ethan Winiarski - Operations Tech I

Date Mixed: 24-Dec-2024

Balance Serial # 1127510105

Dillan Murphy - Operations Technician I

Date Passed: 02-Jan-2025

REVIEWED
By Jennifer Pabon at 7:12 am, Jan 05, 2025

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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10 vial
Dec 03/31/25
CERTIFIED REFERENCE MATERIAL

Certificate of Analysis
gravimetric

V14904 to V14913



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555582 **Lot No.:** A0223904
Description : Custom 8260A/B Surrogate Mix
Custom 8260A/B Surrogate Mix 25,000µg/mL, P&T Methanol,
1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : March 31, 2028 **Storage:** 10°C or colder
Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2-Dichloroethane-d4	17060-07-0	PR-33313	99%	25,108.0 µg/mL	+/- 1,421.9957
2	1-Bromo-4-fluorobenzene (BFB)	460-00-4	0000268853	99%	25,108.0 µg/mL	+/- 1,421.9957
3	Dibromofluoromethane	1868-53-7	VENKAT02	99%	25,232.0 µg/mL	+/- 1,429.0184
4	Toluene-d8	2037-26-5	PR-34141	99%	25,156.0 µg/mL	+/- 1,424.7141

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%


Brittany Federlino - Operations Tech I

Date Mixed: 27-Mar-2025

Balance: B251644995



Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

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- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

Rev 05/09/25
Avantor™



V 14921 to
V 14938

Material No.: 9077-02
Batch No.: 24G0262002
Manufactured Date: 2024-05-14
Expiration Date: 2027-05-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titration Acid (μeq/g)	≤ 0.3	0.3
Titration Base (μeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak
Director Quality Operations, Bioscience Production

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

Rev 05/09/25
Avantor™



V 14921 to
V 14938

Material No.: 9077-02
Batch No.: 24G0262002
Manufactured Date: 2024-05-14
Expiration Date: 2027-05-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titration Acid (μeq/g)	≤ 0.3	0.3
Titration Base (μeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
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846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak
Director Quality Operations, Bioscience Production

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

Rev 05/09/25
Avantor™



V 14921 to
V 14938

Material No.: 9077-02
Batch No.: 24G0262002
Manufactured Date: 2024-05-14
Expiration Date: 2027-05-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titration Acid (μeq/g)	≤ 0.3	0.3
Titration Base (μeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak
Director Quality Operations, Bioscience Production



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2ee 05/19/25
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20 vial

Certificate of Analysis

chromatographic plus

✓ 14951 to ✓ 14970



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489 **Lot No.:** A0222076
Description : 8260B Acetates Mix
8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : August 31, 2026 **Storage:** -20°C or colder
Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBR1889	99%	2,004.0 µg/mL	+/- 69.2674
2	Vinyl acetate	108-05-4	RD240423RSR	99%	2,010.0 µg/mL	+/- 69.4748
3	Ethyl acetate	141-78-6	SHBS3323	99%	2,019.3 µg/mL	+/- 69.7974
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,008.0 µg/mL	+/- 69.4057
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBR2024	99%	2,008.0 µg/mL	+/- 69.4057
7	Amyl acetate	628-63-7	BCBT7442	99%	2,006.7 µg/mL	+/- 69.3596

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this



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2ee 05/19/25
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20 vial

Certificate of Analysis

chromatographic plus

✓ 14951 to ✓ 14970



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489 **Lot No.:** A0222076
Description : 8260B Acetates Mix
8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : August 31, 2026 **Storage:** -20°C or colder
Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBR1889	99%	2,004.0 µg/mL	+/- 69.2674
2	Vinyl acetate	108-05-4	RD240423RSR	99%	2,010.0 µg/mL	+/- 69.4748
3	Ethyl acetate	141-78-6	SHBS3323	99%	2,019.3 µg/mL	+/- 69.7974
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,008.0 µg/mL	+/- 69.4057
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBR2024	99%	2,008.0 µg/mL	+/- 69.4057
7	Amyl acetate	628-63-7	BCBT7442	99%	2,006.7 µg/mL	+/- 69.3596

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this



Rec 09/16/25 5 vial



CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 091525
Description: AcroleinSolvent(s):
Water Lot#: 041725Q

Expiration Date: 101525

Recommended Storage: Refrigerate (2°C to 8°C)

Nominal Concentration (µg/mL): 5000

NIST Test ID#: 6UTB

5E-05 Balance Uncertainty

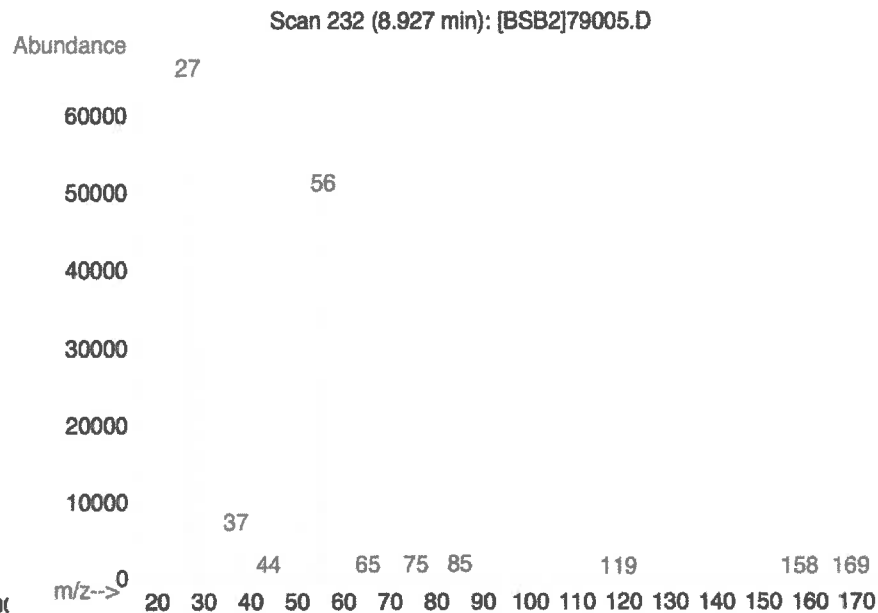
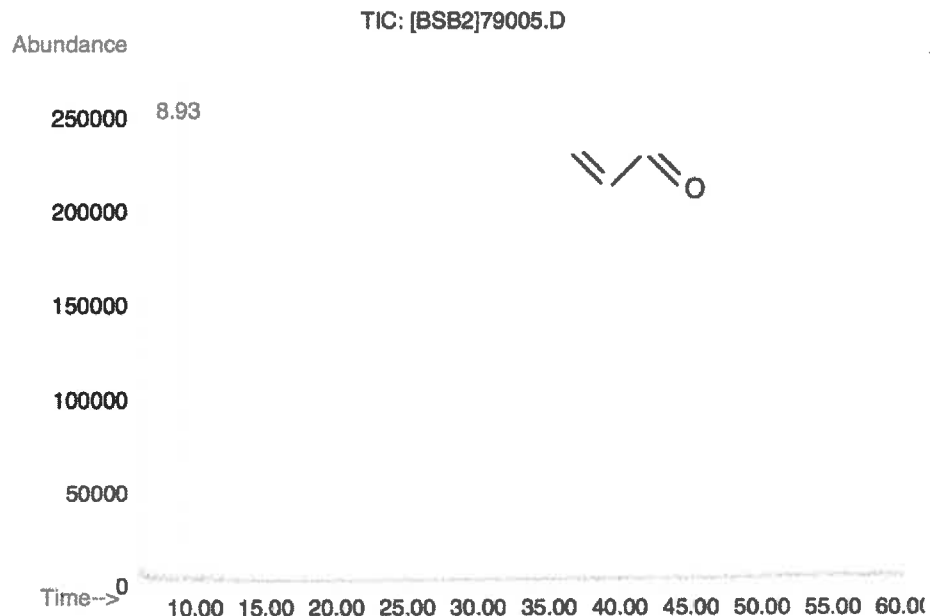
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

091525	
Formulated By: Anthony Mahoney	DATE
091525	
Reviewed By: Pedro L. Rentas	DATE

V15064 to
V15068

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05176	5009.9	52.6	107-02-8	0.1 ppm	ori-rat 46mg/kg

Method: GC6MSD-1. Detector: Mass Selective Detector (Scan mode). Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas. NOTE: Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately. Long term storage is not recommended. Please contact our technical department if further information is required.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
 - Standards are prepared gravimetrically using balances that are calibrated by an ISO 17025 certified organization with weights traceable through NIST to the SI kilogram (see above).
 - Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
 - All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
 - Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).
- Rev 1.0, 2/25/2025



Certified Reference Material CRM

Rec 09/16/25 5 vial

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 091525
Description: AcroleinSolvent(s):
Water Lot#: 041725Q

091525	
Formulated By: Anthony Mahoney	DATE
091525	
Reviewed By: Pedro L. Rentas	DATE

Expiration Date: 101525

Recommended Storage: Refrigerate (2°C to 8°C)

Nominal Concentration (µg/mL): 5000

NIST Test ID#: 6UTB

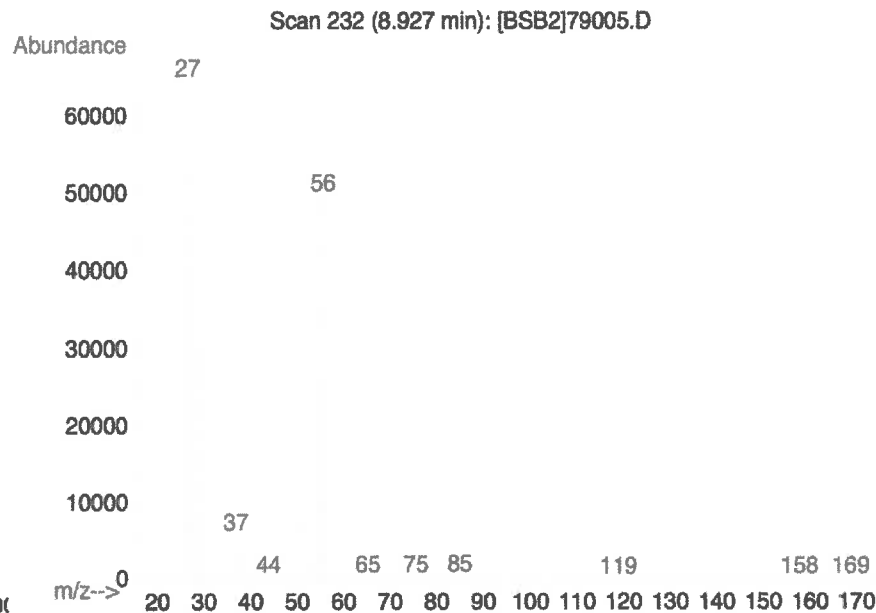
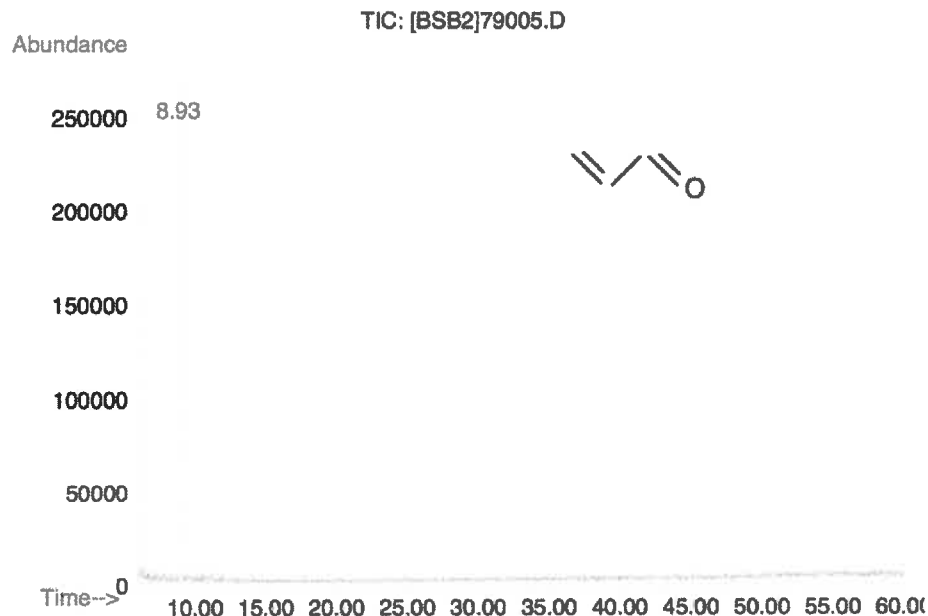
5E-05 Balance Uncertainty

Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

V15064 to
V15068

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05176	5009.9	52.6	107-02-8	0.1 ppm	ori-rat 46mg/kg

Method: GC6MSD-1. Detector: Mass Selective Detector (Scan mode). Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas. NOTE: Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately. Long term storage is not recommended. Please contact our technical department if further information is required.



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- Rev 1.0, 2/25/2025



Rec 09/16/25 5 vial



CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 091525
Description: AcroleinSolvent(s):
Water Lot#: 041725Q

Expiration Date: 101525

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Nominal Concentration (µg/mL): 5000

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5E-05 Balance Uncertainty

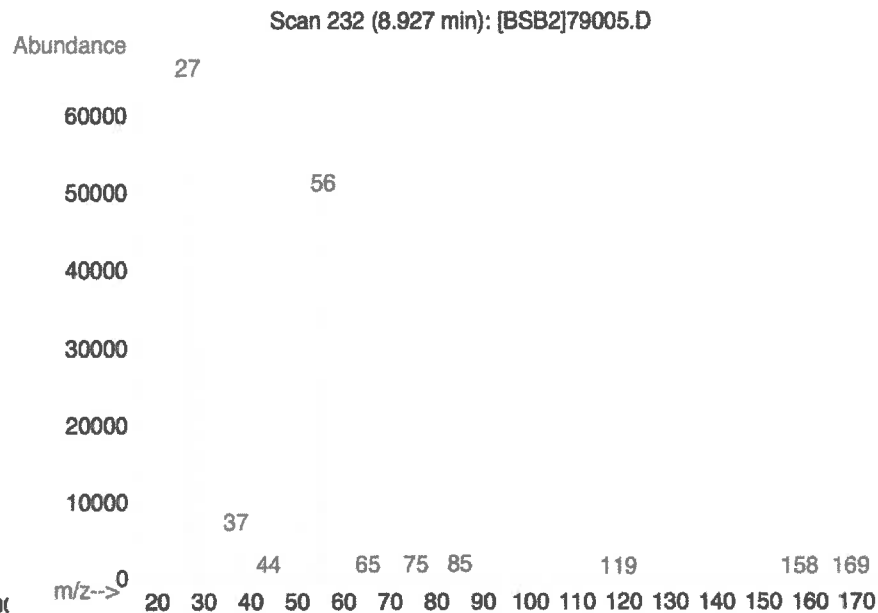
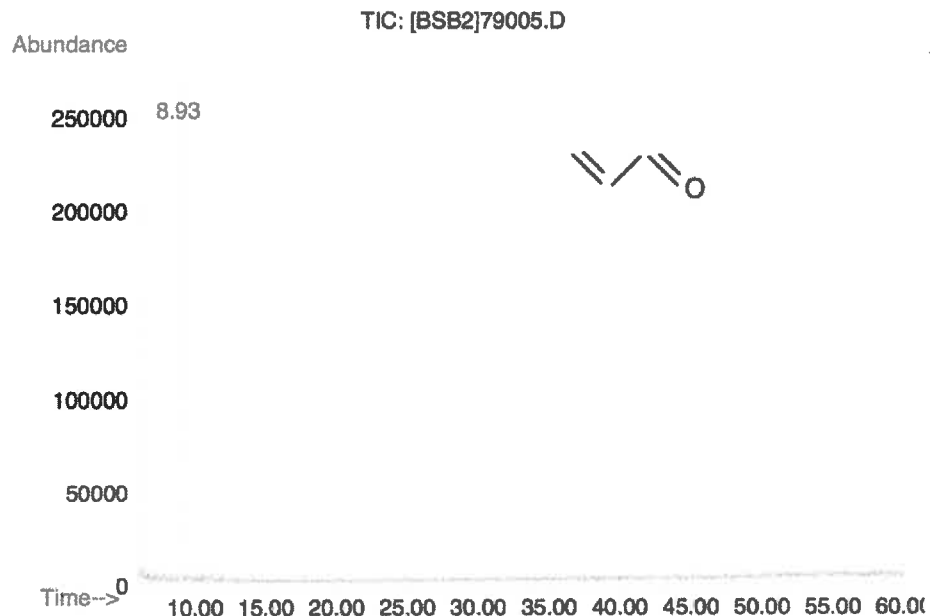
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

091525	
Formulated By: Anthony Mahoney	DATE
091525	
Reviewed By: Pedro L. Rentas	DATE

V15064 to
V15068

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05186	0.05176	5009.9	52.6	107-02-8	0.1 ppm	ori-rat 46mg/kg

Method: GC6MSD-1. Detector: Mass Selective Detector (Scan mode). Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas. NOTE: Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately. Long term storage is not recommended. Please contact our technical department if further information is required.



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- Rev 1.0, 2/25/2025



SHIPPING DOCUMENTS

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CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: LKB ENGINEERING, PLLC.
ADDRESS: 1 AERIAL WAY
CITY: SYOSSET STATE: NY ZIP: 11791
ATTENTION: JOHN GERLACH
PHONE: 516-210-8931 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: ANSONIA LANDFILL
PROJECT NO.: 0774-08 LOCATION: CT
PROJECT MANAGER: JOHN GERLACH
e-mail: jgerlach@LKB-ENGINEERING.COM
PHONE: SAME FAX:

CLIENT BILLING INFORMATION

BILL TO: LKB ENGINEERING PO#: N/A for lab
ADDRESS: SAME
CITY: STATE: ZIP:
ATTENTION: SHARON F. PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) DAYS*
HARDCOPY (DATA PACKAGE): STD. DAYS*
EDD: DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☒ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B
+ Raw Data ☐ Other
☒ EDD FORMAT NYS DEC

VOCs SEE BOTTLE ORDER # B2509037
1 2 3 4 5 6 7 8 9

PRESERVATIVES

COMMENTS

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS
			COMP	GRAB	DATE	TIME		A/E	1	2	3	4	5	6	7	8	
1.	MW-1	GW	X		9/29/25	9:45	10		X								SAMPLES FOR DISS. Fe+Mn FILTERED IN FIELD
2.	MW-2	GW		X		11:15	10		X								
3.	MW-3	GW		X		12:30	10		X								
4.	MW-4	GW		X		11:45	10		X								
5.	TRIP BLANK	DI		X	↓		2	X									
6.																	
7.																	
8.																	
9.																	
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER: 1. [Signature]	DATE/TIME: 1050 9/30/25	RECEIVED BY: 1. [Signature]	DATE/TIME: 1058 9-30-25	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 2.1 °C
RELINQUISHED BY SAMPLER: 2. [Signature]	DATE/TIME:	RECEIVED BY: 2. [Signature]	DATE/TIME:	Comments:
RELINQUISHED BY SAMPLER: 3. [Signature]	DATE/TIME: 1245 9-30-25	RECEIVED BY: 3. [Signature]	DATE/TIME:	Page ____ of

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete
☐ YES ☐ NO

Laboratory Certification

Certified By	License No.
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255425
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	TX-C25-00189
Virginia	460312



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q3254	LOCK01	Order Date : 9/30/2025 12:37:00 PM	Project Mgr : Yazmeen
Client Name : Lockwood, Kessler & Bartl		Project Name : Ansonia Landfill 2025	Report Type : NYS ASP B
Client Contact : John Gerlach		Receive DateTime : 9/30/2025 12:45:00 PM	EDD Type : EXCEL NOCLEANUP
Invoice Name : Lockwood, Kessler & Bartl		Purchase Order :	Hard Copy Date :
Invoice Contact : John Gerlach			Date Signoff : 9/30/2025 3:06:33 PM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q3254-01	MW-1	Water	09/29/2025	09:45					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q3254-03	MW-2	Water	09/29/2025	11:15					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q3254-05	MW-3	Water	09/29/2025	12:30					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q3254-07	MW-4	Water	09/29/2025	11:45					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q3254-09	TRIP-BLANK	Water	09/29/2025	00:00					
					VOCMS Group1		8260-Low	10 Bus. Days	

Relinquished By :

Date / Time :


9/30/25 13:00

Received By :

Date / Time :


9/30/25 13:00

Storage Area : VOA Refridgerator Room